



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 114539

TO: Karen C Carlson  
Location: rem/3d85/3c70  
Art Unit: 1653  
Monday, February 23, 2004

Case Serial Number: 09/989994

From: Alex Waclawiw  
Location: Biotech-Chem Library  
Rem 1A71  
Phone: 308-4491

Alexandra.waclawiw@uspto.gov

### Search Notes

Karen,

I'm still working on searching the  
three sequences against the application.

Alex

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:42:13 ; Search time 27 Seconds  
(without alignments)  
54.284 Million cell updates/sec

Title: US-09-989-994-395  
Perfect score: 35  
Sequence: 1 DRSNLTR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 801455 seqs, 209382283 residues

Total number of hits satisfying chosen parameters: 140

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

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 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNM NUCLEOTIDE  
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 395  
 ; LENGTH: 7  
 ; TYPE: PRT

ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-395

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RESULT 2  
 US-09-989-789-1376  
 ; Sequence 1376, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNM NUCLEOTIDE  
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: Patentln Ver. 2.0  
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 ; TYPE: PRT

ORGANISM: Artificial Sequence

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 US-09-989-789-1376

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OY 1 DRSNLTTR 7  
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 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNM NUCLEOTIDE  
 ; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
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ORGANISM: Artificial Sequence

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 US-09-989-789-1454

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OY 1 DRSNLTTR 7  
 Db 1 DRSNLTTR 7

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RESULT 4
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; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
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US-09-989-789-1464

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Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

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; Sequence 1525, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
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US-09-989-789-1525

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QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 6
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; Sequence 1553, Application US/09989789
; Patent No. US20020063379A1
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; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085

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; SOFTWARE: Patentin Ver. 2.0
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Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

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US-09-989-789-1559
; Sequence 1559, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
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; Patent No. US20020063379A1
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; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
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Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 DRSNLT 7  
Db 1 DRSNLT 7

## RESULT 9

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; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
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US-09-989-789-1577

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Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 10

US-09-989-789-1899  
; Sequence 1899, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1899  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1899

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

## RESULT 11

US-09-989-789-2668  
; Sequence 2668, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2668  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2668

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

## RESULT 12

US-09-989-789-2705  
; Sequence 2705, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2705  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2705

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

## RESULT 13

US-09-989-789-2737  
; Sequence 2737, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2737  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2737

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7  
|||||  
Db 1 DRSNLTR 7

## RESULT 14

US-09-989-789-2791  
; Sequence 2791, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2791  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2791

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7  
|||||  
Db 1 DRSNLTR 7

## RESULT 15

US-09-989-789-2792  
; Sequence 2792, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2792  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2792

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7  
|||||  
Db 1 DRSNLTR 7

## RESULT 16

US-09-989-789-2887  
; Sequence 2887, Application US/09989789  
; Patent No. US20020063379A1

; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2887  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2887

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7  
|||||  
Db 1 DRSNLTR 7

## RESULT 17

US-09-989-789-2995  
; Sequence 2995, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2995  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2995

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7  
|||||  
Db 1 DRSNLTR 7

## RESULT 18

US-09-989-789-2996  
; Sequence 2996, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2996  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2996

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 19
US-09-989-789-2999
; Sequence 2999, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2999
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2999

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 20
US-09-989-789-3006
; Sequence 3006, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3006

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 21
US-09-989-789-3131
; Sequence 3131, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3131
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3131

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 22
US-09-989-789-3197
; Sequence 3197, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3197
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3197

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 23
US-09-989-789-3216
; Sequence 3216, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0

```

```
; SEQ ID NO 3216
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3216

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 24
US-09-989-789-3286
; Sequence 3286, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3286
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3286

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 25
US-09-989-789-3287
; Sequence 3287, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3287
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3287

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
```

```
Db 1 DRSNLTTR 7

RESULT 26
US-09-989-789-3293
; Sequence 3293, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3293
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3293

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 27
US-09-989-789-3294
; Sequence 3294, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3294
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3294

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 28
US-09-989-789-3417
; Sequence 3417, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
```



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; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3417
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3417

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DRSNLT 7
Db 1 DRSNLT 7

```

```

RESULT 29
US-09-989-789-3419
; Sequence 3419, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3419
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3419

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DRSNLT 7
Db 1 DRSNLT 7

```

```

RESULT 30
US-09-989-789-3535
; Sequence 3535, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3535
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3535

```

```

Query Match 100.0%; Score 35; DB 9; Length 7;

```

```

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DRSNLT 7
Db 1 DRSNLT 7

```

```

RESULT 31
US-09-989-789-3572
; Sequence 3572, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3572
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3572

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DRSNLT 7
Db 1 DRSNLT 7

```

```

RESULT 32
US-09-989-789-3598
; Sequence 3598, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3598
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3598

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DRSNLT 7
Db 1 DRSNLT 7

```

```

RESULT 33
US-09-989-789-3600
; Sequence 3600, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3600
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3600

```

Query Match	100.0%;	Score 35;	DB 9;	Length 7;
Best Local Similarity	100.0%;	Pred. No. 7e+05;		
Matches	7;	Conservative 0;	Mismatches 0;	Indels 0;
				Gaps 0;
Oy	1 DRSNLTR 7			
Db	1 DRSNLTR 7			

RESULT 34  
US-09-989-789-3666  
; Sequence 3666, Application US/09989789  
; Patent No. US20020063379A1

```

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3666
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3666

```

Query Match	100.0%;	Score 35;	DB 9;	Length 7;
Best Local Similarity	100.0%;	Pred. No. 7e+05;		
Matches	7;	Conservative	0;	Mismatches 0;
QY	1	DRSNLTR	7	
Db	1	DRSNLTR	7	

RESULT 35  
US-09-989-789-3898  
; Sequence 3898, Application US/099897899  
; Patent No. US20020063379A1

```

? AFFILIANT: LIO, YIANG
? TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
? TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
? FILE REFERENCE: 8325-0011.20 / S11-US2
? CURRENT APPLICATION NUMBER: US/09/989,789
? CURRENT FILING DATE: 2002-03-25
? NUMBER OF SEQ ID NOS: 4085
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 3898
? LENGTH: 7
? TYPE: PRT
? ORGANISM: Artificial Sequence
? FEATURE:
?

```

OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3898

Query Match	100.0%;	Score 35;	DB 9;	Length 7;
Best Local Similarity	100.0%;	Pred. No. 7e+05;		
Matches	7;	Conservative	0;	Mismatches 0;
			Indels	Gaps 0;

QY	1	DRSNLTR	7
Db	1	DRSNLTR	7

RESULT 36  
US-09-989-789-3899  
; Sequence 3899, Application US/099897899  
; Patent No. US20020063379A1

```

; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLET BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3899
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3899

```

Query Match	100.0%;	Score 35;	DB 9;	Length 7;
Best Local Similarity	100.0%;	Pred. NO. 7e+05;		
Matches	7;	Conservative	0;	Mismatches 0;
			Indels	Gaps 0;

QY	1	DRSNL	TR	7
Db	1	DRSNL	TR	7

RESULT 37  
US-09-989-789-3976  
; Sequence 3976, Application US/09989789  
; Patent No. US2002006379A1

```

? APPLICANT: LIU, Qiang
? TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
? TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
? FILE REFERENCE: 8325-0011.20 / S11-US2
? CURRENT APPLICATION NUMBER: US/09/989,789
? CURRENT FILING DATE: 2002-03-25
? NUMBER OF SEQ ID NOS: 4085
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 3976

```

```

; ORGANISM: Artificial Sequence
;
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3976

```

Query Match	100.0%;	Score 35;	DB 9;	Length 7;
Best Local Similarity	100.0%;	Pred. No. 7e+05;		
Matches	7;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0;

QY	1	DRSNLTR	7
Db	1	DRSNLTR	7

**RESULT 38**

US-09-989-789-3979  
; Sequence 3979, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3979  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3979

Query Match 100.0%; Score 35; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
Db 1 DRSNLTR 7

RESULT 39  
US-09-731-558-20  
; Sequence 20, Application US/09731558  
; Patent No. US20020146691A1  
; GENERAL INFORMATION:  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Liu, Qiang  
; APPLICANT: Rebar, Edward J.  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Methods of Using Randomized Libraries of Zinc Finger  
; TITLE OF INVENTION: Proteins for the Identification of Gene Function  
; FILE REFERENCE: 019496-003210US  
; CURRENT APPLICATION NUMBER: US/09/731,558  
; CURRENT FILING DATE: 2000-12-06  
; PRIOR APPLICATION NUMBER: US 09/456,100  
; PRIOR FILING DATE: 1999-12-06  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 20  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SBS9  
; OTHER INFORMATION: recognition helix  
US-09-731-558-20

Query Match 100.0%; Score 35; DB 10; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
Db 1 DRSNLTR 7

RESULT 40  
US-09-846-033B-36  
; Sequence 36, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang

; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; TITLE OF INVENTION: Finger Proteins  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 36  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-36

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
Db 1 DRSNLTR 7

RESULT 41  
US-09-846-033B-55  
; Sequence 55, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; TITLE OF INVENTION: Finger Proteins  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 55  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-55

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
Db 1 DRSNLTR 7

```
RESULT 42
US-09-846-033B-56
; Sequence 56, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-56

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLT 7
Db      1 DRSNLT 7

RESULT 43
US-09-846-033B-59
; Sequence 59, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 59
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-59
```

```
Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLT 7
Db      1 DRSNLT 7

RESULT 44
US-09-846-033B-67
; Sequence 67, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 67
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-67

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLT 7
Db      1 DRSNLT 7

RESULT 45
US-09-846-033B-134
; Sequence 134, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
```



```

; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 134
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-134

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLT 7
      |||||
Db      1 DRSNLT 7

```

```

RESULT 46
US-09-846-033B-167
; Sequence 167, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 167
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-167

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLT 7
      |||||
Db      1 DRSNLT 7

```

```

RESULT 47
US-09-846-033B-170
; Sequence 170, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.

```

```

; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 170
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-170

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLT 7
      |||||
Db      1 DRSNLT 7

```

```

RESULT 48
US-09-846-033B-196
; Sequence 196, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 196
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: recognition helix
US-09-846-033B-196

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLT 7
      |||||
Db      1 DRSNLT 7

```

```

RESULT 49
US-09-846-033B-198
; Sequence 198, Application US/09846033B
; Publication No. US20030044404A1

```

GENERAL INFORMATION:  
APPLICANT: Rebar, Edward  
APPLICANT: Jamieson, Andrew  
APPLICANT: Liu, Qiang  
APPLICANT: Liu, Pei-Qi  
APPLICANT: Wolfe, Alan  
APPLICANT: Eisenberg, Stephen P.  
APPLICANT: Jarvis, Eric  
APPLICANT: Sangamo Biosciences, Inc.  
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
TITLE OF INVENTION: Finger Proteins  
FILE REFERENCE: 019496-005820US  
CURRENT APPLICATION NUMBER: US/09/846,033B  
CURRENT FILING DATE: 2001-04-30  
PRIOR APPLICATION NUMBER: US 09/733,604  
PRIOR FILING DATE: 2000-12-07  
PRIOR APPLICATION NUMBER: US 09/736,083  
PRIOR FILING DATE: 2000-12-12  
NUMBER OF SEQ ID NOS: 252  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 198  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: recognition helix  
US-09-846-033B-198

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 50  
US-09-990-186-395  
Sequence 395, Application US/09990186  
Publication No. US20030068675A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
FILE REFERENCE: 8325-0011.21 / S11-US3  
CURRENT APPLICATION NUMBER: US/09/990,186  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 395  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-395

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 51  
US-09-990-186-1376  
Sequence 1376, Application US/09990186  
Publication No. US20030068675A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
FILE REFERENCE: 8325-0011.21 / S11-US3  
CURRENT APPLICATION NUMBER: US/09/990,186  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1376  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1376

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 52  
US-09-990-186-1454  
Sequence 1454, Application US/09990186  
Publication No. US20030068675A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
FILE REFERENCE: 8325-0011.21 / S11-US3  
CURRENT APPLICATION NUMBER: US/09/990,186  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1454  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1454

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 53  
US-09-990-186-1464  
Sequence 1464, Application US/09990186  
Publication No. US20030068675A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
FILE REFERENCE: 8325-0011.21 / S11-US3  
CURRENT APPLICATION NUMBER: US/09/990,186  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1464  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-1464

Query Match 100.0%; Score 35; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
 |||||  
 Db 1 DRSNLTTR 7

RESULT 54

US-09-990-186-1525  
 ; Sequence 1525, Application US/09990186  
 ; Publication No. US20030068675A1  
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 FILE REFERENCE: 8325-0011.21 / S11-US3  
 CURRENT APPLICATION NUMBER: US/09/990,186  
 CURRENT FILING DATE: 2001-11-20  
 NUMBER OF SEQ ID NOS: 4085  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1525  
 LENGTH: 7  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-990-186-1525

Query Match 100.0%; Score 35; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
 |||||  
 Db 1 DRSNLTTR 7

RESULT 55

US-09-990-186-1553  
 ; Sequence 1553, Application US/09990186  
 ; Publication No. US20030068675A1  
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 FILE REFERENCE: 8325-0011.21 / S11-US3  
 CURRENT APPLICATION NUMBER: US/09/990,186  
 CURRENT FILING DATE: 2001-11-20  
 NUMBER OF SEQ ID NOS: 4085  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1553  
 LENGTH: 7  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-990-186-1553

Query Match 100.0%; Score 35; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
 |||||  
 Db 1 DRSNLTTR 7

RESULT 56  
 US-09-990-186-1559

Sequence 1559, Application US/09990186  
 Publication No. US20030068675A1  
 GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 FILE REFERENCE: 8325-0011.21 / S11-US3  
 CURRENT APPLICATION NUMBER: US/09/990,186  
 CURRENT FILING DATE: 2001-11-20  
 NUMBER OF SEQ ID NOS: 4085  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1559  
 LENGTH: 7  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-990-186-1559

Query Match 100.0%; Score 35; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
 |||||  
 Db 1 DRSNLTTR 7

RESULT 57

US-09-990-186-1564  
 ; Sequence 1564, Application US/09990186  
 ; Publication No. US20030068675A1  
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 FILE REFERENCE: 8325-0011.21 / S11-US3  
 CURRENT APPLICATION NUMBER: US/09/990,186  
 CURRENT FILING DATE: 2001-11-20  
 NUMBER OF SEQ ID NOS: 4085  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1564  
 LENGTH: 7  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-990-186-1564

Query Match 100.0%; Score 35; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
 |||||  
 Db 1 DRSNLTTR 7

RESULT 58

US-09-990-186-1577  
 ; Sequence 1577, Application US/09990186  
 ; Publication No. US20030068675A1  
 ; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
 TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 FILE REFERENCE: 8325-0011.21 / S11-US3  
 CURRENT APPLICATION NUMBER: US/09/990,186  
 CURRENT FILING DATE: 2001-11-20  
 NUMBER OF SEQ ID NOS: 4085  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1577  
 LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1577

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 DRSNLTTR 7
      |||||
Db      1 DRSNLTTR 7

```

```

RESULT 59
US-09-990-186-1899
; Sequence 1899, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1899
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1899

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 DRSNLTTR 7
      |||||
Db      1 DRSNLTTR 7

```

```

RESULT 60
US-09-990-186-2668
; Sequence 2668, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2668
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2668

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 DRSNLTTR 7
      |||||
Db      1 DRSNLTTR 7

```

```

RESULT 61
US-09-990-186-2705
; Sequence 2705, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2705
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2705

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 DRSNLTTR 7
      |||||
Db      1 DRSNLTTR 7

```

```

RESULT 62
US-09-990-186-2737
; Sequence 2737, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2737
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2737

```

```

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 DRSNLTTR 7
      |||||
Db      1 DRSNLTTR 7

```

```

RESULT 63
US-09-990-186-2791
; Sequence 2791, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20

```



```
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2791
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2791

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

RESULT 64
US-09-990-186-2792
; Sequence 2792, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2792
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2792

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

RESULT 65
US-09-990-186-2887
; Sequence 2887, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2887
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2887

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

RESULT 66
US-09-990-186-2995
; Sequence 2995, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2995
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2995

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

RESULT 67
US-09-990-186-2996
; Sequence 2996, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2996
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2996

Query Match      100.0%; Score 35; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DRSNLTR 7
        |||||
Db      1 DRSNLTR 7

RESULT 68
US-09-990-186-2999
; Sequence 2999, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
```

```

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2999
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2999

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 69
US-09-990-186-3006
; Sequence 3006, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3006

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 70
US-09-990-186-3131
; Sequence 3131, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3131
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3131
```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 71
US-09-990-186-3197
; Sequence 3197, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3197
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3197

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 72
US-09-990-186-3216
; Sequence 3216, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3216
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3216

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

RESULT 73
US-09-990-186-3286
; Sequence 3286, Application US/09990186
```

```
Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3286
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3286
```

```
Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 DRSNLTTR 7
    |||||
Db 1 DRSNLTTR 7
```

RESULT 74

```
US-09-990-186-3287
; Sequence 3287, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3287
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3287
```

```
Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 DRSNLTTR 7
    |||||
Db 1 DRSNLTTR 7
```

RESULT 75

```
US-09-990-186-3293
; Sequence 3293, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3293
; LENGTH: 7
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3293
```

```
Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 DRSNLTTR 7
    |||||
Db 1 DRSNLTTR 7
```

RESULT 76

```
US-09-990-186-3294
; Sequence 3294, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3294
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3294
```

```
Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 DRSNLTTR 7
    |||||
Db 1 DRSNLTTR 7
```

RESULT 77

```
US-09-990-186-3417
; Sequence 3417, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3417
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3417
```

```
Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 DRSNLTTR 7
    |||||
Db 1 DRSNLTTR 7
```

```

RESULT 78
US-09-990-186-3419
; Sequence 3419, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3419
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3419

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 79
US-09-990-186-3535
; Sequence 3535, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3535
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3535

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 80
US-09-990-186-3572
; Sequence 3572, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3572
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3572

```

```

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3572
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3572

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 81
US-09-990-186-3598
; Sequence 3598, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3598
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3598

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
Db 1 DRSNLTTR 7

```

```

RESULT 82
US-09-990-186-3600
; Sequence 3600, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3600
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3600

```

```

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```



OY 1 DRSNLT 7  
| | | | |  
Db 1 DRSNLT 7

## RESULT 83

US-09-990-186-3666  
; Sequence 3666, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3666  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3666

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLT 7  
| | | | |  
Db 1 DRSNLT 7

## RESULT 84

US-09-990-186-3898  
; Sequence 3898, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3898  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3898

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLT 7  
| | | | |  
Db 1 DRSNLT 7

## RESULT 85

US-09-990-186-3899  
; Sequence 3899, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3899

; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3899  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3899

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLT 7  
| | | | |  
Db 1 DRSNLT 7

## RESULT 86

US-09-990-186-3976  
; Sequence 3976, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3976  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3976

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLT 7  
| | | | |  
Db 1 DRSNLT 7

## RESULT 87

US-09-990-186-3979  
; Sequence 3979, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3979  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3979

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 88

US-09-989-994-395  
; Sequence 395, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 395  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-395

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 89

US-09-989-994-1376  
; Sequence 1376, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1376  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1376

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 90

US-09-989-994-1454  
; Sequence 1454, Application US/09989994  
; Publication No. US20030104526A1

## ; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1454  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1454

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 91

US-09-989-994-1464  
; Sequence 1464, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1464  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1464

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 92

US-09-989-994-1525  
; Sequence 1525, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1525  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

/ FEATURE:  
/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1525

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
| | | | |  
Db 1 DRSNLTR 7

RESULT 93  
US-09-989-994-1553

/ Sequence 1553, Application US/09989994  
/ Publication No. US20030104526A1

/ GENERAL INFORMATION:

/ APPLICANT: LIU, Qiang

/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

/ TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

/ FILE REFERENCE: 8325-0011.20 / S11-US2

/ CURRENT APPLICATION NUMBER: US/09/989,994

/ CURRENT FILING DATE: 2001-11-20

/ NUMBER OF SEQ ID NOS: 4085

/ SOFTWARE: Patentin Ver. 2.0

/ SEQ ID NO 1553

/ LENGTH: 7

/ TYPE: PRT

/ ORGANISM: Artificial Sequence

/ FEATURE:

/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-1553

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
| | | | |  
Db 1 DRSNLTR 7

RESULT 94

US-09-989-994-1559

/ Sequence 1559, Application US/09989994

/ Publication No. US20030104526A1

/ GENERAL INFORMATION:

/ APPLICANT: LIU, Qiang

/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

/ TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

/ FILE REFERENCE: 8325-0011.20 / S11-US2

/ CURRENT APPLICATION NUMBER: US/09/989,994

/ CURRENT FILING DATE: 2001-11-20

/ NUMBER OF SEQ ID NOS: 4085

/ SOFTWARE: Patentin Ver. 2.0

/ SEQ ID NO 1559

/ LENGTH: 7

/ TYPE: PRT

/ ORGANISM: Artificial Sequence

/ FEATURE:

/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-1559

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
| | | | |  
Db 1 DRSNLTR 7

RESULT 95

US-09-989-994-1564

/ Sequence 1564, Application US/09989994

/ Publication No. US20030104526A1

/ GENERAL INFORMATION:

/ APPLICANT: LIU, Qiang

/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

/ TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

/ FILE REFERENCE: 8325-0011.20 / S11-US2

/ CURRENT APPLICATION NUMBER: US/09/989,994

/ CURRENT FILING DATE: 2001-11-20

/ NUMBER OF SEQ ID NOS: 4085

/ SOFTWARE: Patentin Ver. 2.0

/ SEQ ID NO 1564

/ LENGTH: 7

/ TYPE: PRT

/ ORGANISM: Artificial Sequence

/ FEATURE:

/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-1564

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
| | | | |  
Db 1 DRSNLTR 7

RESULT 96

US-09-989-994-1577

/ Sequence 1577, Application US/09989994

/ Publication No. US20030104526A1

/ GENERAL INFORMATION:

/ APPLICANT: LIU, Qiang

/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

/ TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

/ FILE REFERENCE: 8325-0011.20 / S11-US2

/ CURRENT APPLICATION NUMBER: US/09/989,994

/ CURRENT FILING DATE: 2001-11-20

/ NUMBER OF SEQ ID NOS: 4085

/ SOFTWARE: Patentin Ver. 2.0

/ SEQ ID NO 1577

/ LENGTH: 7

/ TYPE: PRT

/ ORGANISM: Artificial Sequence

/ FEATURE:

/ OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-1577

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05; 0; Indels 0; Gaps 0;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
| | | | |  
Db 1 DRSNLTR 7

RESULT 97

US-09-989-994-1899

/ Sequence 1899, Application US/09989994

/ Publication No. US20030104526A1

/ GENERAL INFORMATION:

/ APPLICANT: LIU, Qiang

/ TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

/ TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

/ FILE REFERENCE: 8325-0011.20 / S11-US2

/ CURRENT APPLICATION NUMBER: US/09/989,994

/ CURRENT FILING DATE: 2001-11-20

/ NUMBER OF SEQ ID NOS: 4085

/ SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 1899  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1899

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 98

US-09-989-994-2668  
; Sequence 2668, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2668  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2668

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 99

US-09-989-994-2705  
; Sequence 2705, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2705  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2705

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7

Db 1 DRSNLTTR 7

RESULT 100  
US-09-989-994-2737  
; Sequence 2737, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2737  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2737

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 101

US-09-989-994-2791  
; Sequence 2791, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2791  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2791

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7  
Db 1 DRSNLTTR 7

## RESULT 102

US-09-989-994-2792  
; Sequence 2792, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.20 / S11-US2

```
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2792
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2792

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
   |||||
Db 1 DRSNLT 7

RESULT 103
US-09-989-994-2887
; Sequence 2887, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2887
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2887

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
   |||||
Db 1 DRSNLT 7

RESULT 104
US-09-989-994-2995
; Sequence 2995, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2995
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2995

Query Match 100.0%; Score 35; DB 11; Length 7;
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```
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
   |||||
Db 1 DRSNLT 7

RESULT 105
US-09-989-994-2996
; Sequence 2996, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2996
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2996

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
   |||||
Db 1 DRSNLT 7

RESULT 106
US-09-989-994-2999
; Sequence 2999, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2999
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2999

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7
   |||||
Db 1 DRSNLT 7

RESULT 107
US-09-989-994-3006
; Sequence 3006, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
```



```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3006

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
   |||||
Db 1 DRSNLTTR 7

RESULT 108
US-09-989-994-3131
; Sequence 3131, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3131
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3131

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
   |||||
Db 1 DRSNLTTR 7

RESULT 109
US-09-989-994-3197
; Sequence 3197, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3197
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3197

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
   |||||
Db 1 DRSNLTTR 7

RESULT 110
US-09-989-994-3216
; Sequence 3216, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3216
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3216

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
   |||||
Db 1 DRSNLTTR 7

RESULT 111
US-09-989-994-3286
; Sequence 3286, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3286
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3286

Query Match
Best Local Similarity 100.0%; Score 35; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTTR 7
   |||||
Db 1 DRSNLTTR 7

RESULT 112
```

US-09-989-994-3287  
; Sequence 3287, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3287  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3287

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTTR 7  
|||  
Db 1 DRSNLTTR 7

RESULT 113  
US-09-989-994-3293  
; Sequence 3293, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3293  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3293

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTTR 7  
|||  
Db 1 DRSNLTTR 7

RESULT 114  
US-09-989-994-3294  
; Sequence 3294, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3294

; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3294

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTTR 7  
|||  
Db 1 DRSNLTTR 7

RESULT 115  
US-09-989-994-3417  
; Sequence 3417, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3417  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3417

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTTR 7  
|||  
Db 1 DRSNLTTR 7

RESULT 116  
US-09-989-994-3419  
; Sequence 3419, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3419  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3419

Query Match 100.0%; Score 35; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTTR 7  
|||

Db 1 DRSNLTR 7

RESULT 117

US-09-989-994-3535

Sequence 3535, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3535

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3535

Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 118

US-09-989-994-3572

Sequence 3572, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3572

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3572

Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 119

US-09-989-994-3598

Sequence 3598, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3598

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3598

Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 120

US-09-989-994-3600

Sequence 3600, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3600

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3600

Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DRSNLTR 7

Db 1 DRSNLTR 7

RESULT 121

US-09-989-994-3666

Sequence 3666, Application US/099899994

Publication No. US20030104526A1

GENERAL INFORMATION:

APPLICANT: LIU, Qiang

TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

FILE REFERENCE: 8325-0011.20 / S11-US2

CURRENT APPLICATION NUMBER: US/09/989,994

CURRENT FILING DATE: 2001-11-20

NUMBER OF SEQ ID NOS: 4085

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3666

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3666

Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
| | | | |

Db 1 DRSNLT 7

## RESULT 122

US-09-989-994-3898

; Sequence 3898, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3898

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3898

## Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
| | | | |

Db 1 DRSNLT 7

## RESULT 123

US-09-989-994-3899

; Sequence 3899, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3899

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3899

## Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
| | | | |

Db 1 DRSNLT 7

## RESULT 124

US-09-989-994-3976

; Sequence 3976, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3976

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3976

## Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
| | | | |

Db 1 DRSNLT 7

## RESULT 125

US-09-989-994-3979

; Sequence 3979, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 3979

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3979

## Query Match

Best Local Similarity 100.0%; Score 35; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
| | | | |

Db 1 DRSNLT 7

## RESULT 126

US-10-245-415B-63

; Sequence 63, Application US/10245415B

; Publication No. US20030166141A1

; GENERAL INFORMATION:

; APPLICANT: Case, Casey Christopher

; APPLICANT: Cox III, George N.

; APPLICANT: Eisenberg, Stephen P.

; APPLICANT: Liu, Qiang

; APPLICANT: Rebar, Edward J.

; TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS

; FILE REFERENCE: 8325-0002.22 / S2-US7

; CURRENT APPLICATION NUMBER: US/10/245,415B

; CURRENT FILING DATE: 2002-09-16

; NUMBER OF SEQ ID NOS: 67

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 63

; LENGTH: 7

; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: recognition helix  
US-10-245-415B-63

Query Match 100.0%; Score 35; DB 12; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 127  
US-10-418-552-27  
; Sequence 27, Application US/10418552  
; Publication No. US20030233672A1  
; GENERAL INFORMATION:

; APPLICANT: LI, Guofu  
; APPLICANT: LIU, Qiang  
; APPLICANT: JAMIESON, Andrew  
; APPLICANT: REBAR, Edward  
; APPLICANT: VAN EENENNAAM, Alison  
; APPLICANT: VENKATRAMESH, Mylavaram  
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR REGULATION OF PLANT GAMMA-  
; FILE REFERENCE: 8325-0029 (S29-US1)  
; CURRENT APPLICATION NUMBER: US/10/418,552  
; CURRENT FILING DATE: 2003-04-17  
; PRIOR APPLICATION NUMBER: 60/373,488  
; PRIOR FILING DATE: 2002-04-17  
; PRIOR APPLICATION NUMBER: 60/385,992  
; PRIOR FILING DATE: 2002-06-04  
; PRIOR APPLICATION NUMBER: 60/442,470  
; PRIOR FILING DATE: 2003-01-24  
; NUMBER OF SEQ ID NOS: 172  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 27  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: AGMT1 P2  
US-10-418-552-27

Query Match 100.0%; Score 35; DB 12; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 128  
US-10-418-552-120

; Sequence 120, Application US/10418552  
; Publication No. US20030233672A1  
; GENERAL INFORMATION:

; APPLICANT: LI, Guofu  
; APPLICANT: LIU, Qiang  
; APPLICANT: JAMIESON, Andrew  
; APPLICANT: REBAR, Edward  
; APPLICANT: VAN EENENNAAM, Alison  
; APPLICANT: VENKATRAMESH, Mylavaram  
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR REGULATION OF PLANT GAMMA-  
; FILE REFERENCE: 8325-0029 (S29-US1)  
; CURRENT APPLICATION NUMBER: US/10/418,552  
; CURRENT FILING DATE: 2003-04-17  
; PRIOR APPLICATION NUMBER: 60/373,488

; PRIOR FILING DATE: 2002-04-17  
; PRIOR APPLICATION NUMBER: 60/385,992  
; PRIOR FILING DATE: 2002-06-04  
; PRIOR APPLICATION NUMBER: 60/442,470  
; PRIOR FILING DATE: 2003-01-24  
; NUMBER OF SEQ ID NOS: 172  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 120  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: CGMT10 F1  
US-10-418-552-120

Query Match 100.0%; Score 35; DB 12; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 129  
US-10-006-069A-36  
; Sequence 36, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:

; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; CURRENT FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 36  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-10-006-069A-36

Query Match 100.0%; Score 35; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLT 7  
Db 1 DRSNLT 7

RESULT 130  
US-10-006-069A-55  
; Sequence 55, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward



```

; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 55
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-55

```

```

Query Match      100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLTTR 7
DB      1 DRSNLTTR 7

```

```

RESULT 131
US-10-006-069A-56
; Sequence 56, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-56

```

```

Query Match      100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;

```

```

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 DRSNLTTR 7
DB      1 DRSNLTTR 7

```

```

RESULT 132
US-10-006-069A-59
; Sequence 59, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 59
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-59

```

```

Query Match      100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLTTR 7
DB      1 DRSNLTTR 7

```

```

RESULT 133
US-10-006-069A-67
; Sequence 67, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033

```

```

; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 67
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-67

```

```

Query Match      100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLTR 7
Db      1 DRSNLTR 7

```

```

RESULT 134
US-10-006-069A-134
; Sequence 134, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006, 069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733, 604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736, 083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846, 033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 134
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-134

```

```

Query Match      100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLTR 7
Db      1 DRSNLTR 7

```

```

RESULT 135
US-10-006-069A-167
; Sequence 167, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan

```

```

; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006, 069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733, 604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736, 083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846, 033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 167
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-167

```

```

Query Match      100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLTR 7
Db      1 DRSNLTR 7

```

```

RESULT 136
US-10-006-069A-170
; Sequence 170, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006, 069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733, 604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736, 083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846, 033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 170
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-170

```

```

Query Match      100.0%; Score 35; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DRSNLTR 7

```

DB 1 DRSNLTR 7

## RESULT 137

US-10-006-069A-196  
; Sequence 196, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; TITLE OF INVENTION: Finger Proteins  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 196  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: recognition helix  
US-10-006-069A-196

Query Match 100.0%; Score 35; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
DB 1 DRSNLTR 7

RESULT 138  
US-10-006-069A-198  
; Sequence 198, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; TITLE OF INVENTION: Finger Proteins  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 198

; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: recognition helix  
US-10-006-069A-198

Query Match 100.0%; Score 35; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
DB 1 DRSNLTR 7

RESULT 139  
US-10-055-713-37  
; Sequence 37, Application US/10055713  
; Publication No. US20030044957A1  
; GENERAL INFORMATION:  
; APPLICANT: JAMIESON, Andrew  
; APPLICANT: LI, Guotiu  
; TITLE OF INVENTION: ZINC FINGER PROTEINS FOR DNA BINDING AND GENE  
; TITLE OF INVENTION: REGULATION IN PLANTS  
; FILE REFERENCE: 8325-0026 / 526-US1  
; CURRENT APPLICATION NUMBER: US/10/055,713  
; PRIOR FILING DATE: 2002-06-17  
; PRIOR APPLICATION NUMBER: 60/263,445  
; PRIOR FILING DATE: 2001-01-22  
; PRIOR APPLICATION NUMBER: 60/290,716  
; PRIOR FILING DATE: 2001-05-11  
; NUMBER OF SEQ ID NOS: 105  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 37  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: ZFP 1 F2 recognition helix  
US-10-055-713-37

Query Match 100.0%; Score 35; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DRSNLTR 7  
DB 1 DRSNLTR 7

RESULT 140  
US-10-055-711-41  
; Sequence 41, Application US/10055711  
; Publication No. US20030108880A1  
; GENERAL INFORMATION:  
; APPLICANT: REBAR, Edward  
; APPLICANT: JAMIESON, Andrew  
; TITLE OF INVENTION: MODIFIED ZINC FINGER BINDING PROTEINS  
; FILE REFERENCE: 8325-0025  
; CURRENT APPLICATION NUMBER: US/10/055,711  
; PRIOR FILING DATE: 2002-09-10  
; NUMBER OF SEQ ID NOS: 147  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 41  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: ZFP #1 F2  
US-10-055-711-41

Query Match 100.0%; Score 35; DB 15; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05; Indels 0; Gaps 0;  
Matches 7; Conservative 0; Mismatches 0;

Qy	1	DRSNLTR	7
Db	1	DRSNLTR	7

Search completed: February 23, 2004, 11:47:32  
Job time : 28 secs

---

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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:37:34 ; Search time 11.6667 Seconds  
(without alignments)  
57.701 Million cell updates/sec

Title: US-09-989-994-395  
Perfect score: 35  
Sequence: 1 DRSNLTR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : PIR\_76:\*  
1: pir1:\*  
2: pir2:\*  
3: pir3:\*  
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
-----					
No matches found					

Search completed: February 23, 2004, 11:45:05  
Job time : 11.6667 secs



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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:35:04 ; Search time 7.66667 Seconds  
(without alignments)  
42.937 Million cell updates/sec

Title: US-09-989-994-395  
Perfect score: 35  
Sequence: 1 DRSNLTR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : SwissProt\_41.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result	Query			
No.	Score	Match	Length	ID
				Description

No matches found

Search completed: February 23, 2004, 11:42:41  
Job time : 7.66667 secs

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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:36:14 ; Search time 27.6667 Seconds  
(without alignments)  
65.290 Million cell updates/sec

Title: US-09-989-994-395  
Perfect score: 35  
Sequence: 1 DRSNLTTR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : SPTREMBL\_23:\*  
1: sp\_archaea:\*  
2: sp\_bacteria:\*  
3: sp\_fungi:\*  
4: sp\_human:\*  
5: sp\_invertebrate:\*  
6: sp\_mammal:\*  
7: sp\_mhc:\*  
8: sp\_organelle:\*  
9: sp\_phage:\*  
10: sp\_plant:\*  
11: sp\_rodent:\*  
12: sp\_virus:\*  
13: sp\_vertebrate:\*  
14: sp\_unclassified:\*  
15: sp\_virus:\*  
16: sp\_bacteriaph:\*  
17: sp\_archaeap:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
---------------	-------	----------------	--------	----	----	-------------

No matches found

Search completed: February 23, 2004, 11:44:17  
Job time : 27.6667 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:32:14 ; Search time 35 Seconds  
(without alignments)  
31.745 Million cell updates/sec

Title: us-09-989-994-229  
Perfect score: 36  
Sequence: 1 RSDLSR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 162

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : A Geneseq\_19Jun03:\*

1: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1980.DAT:\*  
2: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1981.DAT:\*  
3: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1982.DAT:\*  
4: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1983.DAT:\*  
5: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1984.DAT:\*  
6: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1985.DAT:\*  
7: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1986.DAT:\*  
8: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1987.DAT:\*  
9: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1988.DAT:\*  
10: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1989.DAT:\*  
11: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1990.DAT:\*  
12: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1991.DAT:\*  
13: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1992.DAT:\*  
14: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1993.DAT:\*  
15: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1994.DAT:\*  
16: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1995.DAT:\*  
17: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1996.DAT:\*  
18: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1997.DAT:\*  
19: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1998.DAT:\*  
20: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA1999.DAT:\*  
21: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA2000.DAT:\*  
22: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA2001.DAT:\*  
23: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA2002.DAT:\*  
24: /SIDS1/gcgdata/geneseg/genesegp-emb1/AA2003.DAT:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	36	100.0	7	22	AAE08729	Human KCA4 protein
2	36	100.0	7	22	AAE08729	Zinc protein recog
3	36	100.0	7	22	AAE08729	Amino acid sequenc
4	36	100.0	7	23	AAO22249	Zinc finger protei
5	36	100.0	7	23	ABE83583	F3 zinc finger for
6	36	100.0	7	23	ABJ03821	Human VEGF-targete
7	36	100.0	7	23	ABJ03825	Human VEGF-targete
8	36	100.0	7	23	ABJ03848	Human VEGF-targete
9	36	100.0	7	23	ABJ03858	Human VEGF-targete

10	36	100.0	7	23	ABJ03859	Human VEGF-targete
11	36	100.0	7	23	ABJ03860	Human VEGF-targete
12	36	100.0	7	23	ABJ03861	Human VEGF-targete
13	36	100.0	7	23	ABJ03862	Human VEGF-targete
14	36	100.0	7	23	ABJ03863	Human VEGF-targete
15	36	100.0	7	23	ABJ03866	Human VEGF-targete
16	36	100.0	7	23	ABJ03868	Human VEGF-targete
17	36	100.0	7	23	ABJ03870	Human VEGF-targete
18	36	100.0	7	23	ABJ03871	Human VEGF-targete
19	36	100.0	7	23	ABJ03873	Human VEGF-targete
20	36	100.0	7	23	ABJ03897	Human VEGF-targete
21	36	100.0	7	23	ABJ03912	Human VEGF-targete
22	36	100.0	7	23	ABJ03915	Human VEGF-targete
23	36	100.0	7	23	ABJ03917	Human VEGF-targete
24	36	100.0	7	23	ABJ03920	Human VEGF-targete
25	36	100.0	7	23	ABJ03939	Rat VEGF-targeted
26	36	100.0	7	23	ABJ03939	Human ER-alpha loc
27	36	100.0	7	23	ABE80811	Zinc finger protei
28	36	100.0	7	23	ABE98009	Zinc finger protei
29	36	100.0	7	23	ABE98015	Zinc finger protei
30	36	100.0	7	23	ABE98036	Zinc finger protei
31	36	100.0	7	23	ABE98036	Zinc finger protei
32	36	100.0	7	23	ABE98048	Zinc finger protei
33	36	100.0	7	23	ABE98063	Zinc finger protei
34	36	100.0	7	23	ABP48205	Zinc finger protei
35	36	100.0	7	23	ABP48208	Zinc finger protei
36	36	100.0	7	23	ABP48220	Zinc finger protei
37	36	100.0	7	23	ABP48232	Zinc finger protei
38	36	100.0	7	23	ABP48235	Zinc finger protei
39	36	100.0	7	23	ABP48250	Zinc finger protei
40	36	100.0	7	23	ABP48479	Zinc finger protei
41	36	100.0	7	23	ABP48484	Zinc finger protei
42	36	100.0	7	23	ABP48485	Zinc finger protei
43	36	100.0	7	23	ABP48487	Zinc finger protei
44	36	100.0	7	23	ABP48515	Zinc finger protei
45	36	100.0	7	23	ABP48623	Zinc finger protei
46	36	100.0	7	23	ABP48626	Zinc finger protei
47	36	100.0	7	23	ABP48629	Zinc finger protei
48	36	100.0	7	23	ABP48634	Zinc finger protei
49	36	100.0	7	23	ABP48638	Zinc finger protei
50	36	100.0	7	23	ABP48770	Zinc finger protei
51	36	100.0	7	23	ABP48773	Zinc finger protei
52	36	100.0	7	23	ABP48890	Zinc finger protei
53	36	100.0	7	23	ABP48893	Zinc finger protei
54	36	100.0	7	23	ABP48953	Zinc finger protei
55	36	100.0	7	23	ABP48973	Zinc finger protei
56	36	100.0	7	23	ABP48977	Zinc finger protei
57	36	100.0	7	23	ABP49013	Zinc finger protei
58	36	100.0	7	23	ABP49016	Zinc finger protei
59	36	100.0	7	23	ABP49028	Zinc finger protei
60	36	100.0	7	23	ABP49031	Zinc finger protei
61	36	100.0	7	23	ABP49058	Zinc finger protei
62	36	100.0	7	23	ABP49080	Zinc finger protei
63	36	100.0	7	23	ABP49104	Zinc finger protei
64	36	100.0	7	23	ABP49136	Zinc finger protei
65	36	100.0	7	23	ABP49169	Zinc finger protei
66	36	100.0	7	23	ABP49172	Zinc finger protei
67	36	100.0	7	23	ABP49205	Zinc finger protei
68	36	100.0	7	23	ABP49220	Zinc finger protei
69	36	100.0	7	23	ABP49252	Zinc finger protei
70	36	100.0	7	23	ABP49277	Zinc finger protei
71	36	100.0	7	23	ABP49307	Zinc finger protei
72	36	100.0	7	23	ABP49391	Zinc finger protei
73	36	100.0	7	23	ABP49416	Zinc finger protei
74	36	100.0	7	23	ABP49419	Zinc finger protei
75	36	100.0	7	23	ABP49422	Zinc finger protei
76	36	100.0	7	23	ABP49425	Zinc finger protei
77	36	100.0	7	23	ABP49428	Zinc finger protei
78	36	100.0	7	23	ABP49517	Zinc finger protei
79	36	100.0	7	23	ABP49520	Zinc finger protei
80	36	100.0	7	23	ABP49579	Zinc finger protei
81	36	100.0	7	23	ABP49585	Zinc finger protei
82	36	100.0	7	23	ABP49595	Zinc finger protei

83	36	100.0	7	23	ABP49603	Zinc finger protei
84	36	100.0	7	23	ABP49612	Zinc finger protei
85	36	100.0	7	23	ABP49615	Zinc finger protei
86	36	100.0	7	23	ABP49618	Zinc finger protei
87	36	100.0	7	23	ABP49621	Zinc finger protei
88	36	100.0	7	23	ABP49904	Zinc finger protei
89	36	100.0	7	23	ABP49907	Zinc finger protei
90	36	100.0	7	23	ABP49988	Zinc finger protei
91	36	100.0	7	23	ABP50011	Zinc finger protei
92	36	100.0	7	23	ABP50014	Zinc finger protei
93	36	100.0	7	23	ABP50016	Zinc finger protei
94	36	100.0	7	23	ABP50019	Zinc finger protei
95	36	100.0	7	23	ABP50033	Zinc finger protei
96	36	100.0	7	23	ABP50036	Zinc finger protei
97	36	100.0	7	23	ABP50039	Zinc finger protei
98	36	100.0	7	23	ABP50072	Zinc finger protei
99	36	100.0	7	23	ABP50075	Zinc finger protei
100	36	100.0	7	23	ABP50108	Zinc finger protei
101	36	100.0	7	23	ABP50111	Zinc finger protei
102	36	100.0	7	23	ABP50128	Zinc finger protei
103	36	100.0	7	23	ABP50129	Zinc finger protei
104	36	100.0	7	23	ABP50131	Zinc finger protei
105	36	100.0	7	23	ABP50132	Zinc finger protei
106	36	100.0	7	23	ABP50138	Zinc finger protei
107	36	100.0	7	23	ABP50151	Zinc finger protei
108	36	100.0	7	23	ABP50180	Zinc finger protei
109	36	100.0	7	23	ABP50183	Zinc finger protei
110	36	100.0	7	23	ABP50285	Zinc finger protei
111	36	100.0	7	23	ABP50288	Zinc finger protei
112	36	100.0	7	23	ABP50385	Zinc finger protei
113	36	100.0	7	23	ABP50388	Zinc finger protei
114	36	100.0	7	23	ABP50526	Zinc finger protei
115	36	100.0	7	23	ABP50564	Zinc finger protei
116	36	100.0	7	23	ABP50570	Zinc finger protei
117	36	100.0	7	23	ABP50573	Zinc finger protei
118	36	100.0	7	23	ABP50606	Zinc finger protei
119	36	100.0	7	23	ABP50609	Zinc finger protei
120	36	100.0	7	23	ABP50612	Zinc finger protei
121	36	100.0	7	23	ABP50741	Zinc finger protei
122	36	100.0	7	23	ABP50744	Zinc finger protei
123	36	100.0	7	23	ABP50807	Zinc finger protei
124	36	100.0	7	23	ABP50810	Zinc finger protei
125	36	100.0	7	23	ABP50834	Zinc finger protei
126	36	100.0	7	23	ABP50840	Zinc finger protei
127	36	100.0	7	23	ABP50952	Zinc finger protei
128	36	100.0	7	23	ABP50970	Zinc finger protei
129	36	100.0	7	23	ABP50973	Zinc finger protei
130	36	100.0	7	23	ABP50982	Zinc finger protei
131	36	100.0	7	23	ABP50985	Zinc finger protei
132	36	100.0	7	23	ABP51017	Zinc finger protei
133	36	100.0	7	23	ABP51020	Zinc finger protei
134	36	100.0	7	23	ABP51045	Zinc finger protei
135	36	100.0	7	23	ABP51057	Zinc finger protei
136	36	100.0	7	23	ABP51117	Zinc finger protei
137	36	100.0	7	23	ABP51161	Zinc finger protei
138	36	100.0	7	23	ABP51168	Zinc finger protei
139	36	100.0	7	23	ABP51182	Zinc finger protei
140	36	100.0	7	23	ABP47804	VEGF-1 zinc finger
141	36	100.0	7	23	ABP47810	VEGF3a/1 zinc fing
142	36	100.0	7	23	ABP07127	Human veg 1 protei
143	36	100.0	7	24	ABG75734	Zinc finger protei
144	36	100.0	7	24	ABG75746	Three Zinc finger
145	36	100.0	7	24	AAE30450	VEGF specific zinc
146	36	100.0	99	21	AAE07699	Zinc finger protei
147	36	100.0	99	22	AAE08712	Human ZFP-vascular
148	36	100.0	99	23	AAE21124	3 finger protein u
149	36	100.0	99	23	AAE21125	Zinc finger protei
150	36	100.0	99	23	AAE21126	Zinc finger protei
151	36	100.0	99	23	AAE21127	Zinc finger protei
152	36	100.0	99	23	AAE21128	Zinc finger protei
153	36	100.0	99	23	AAE21129	Zinc finger protei
154	36	100.0	99	23	AAE21130	Zinc finger protei
155	36	100.0	99	23	ABB07131	Human Veg 1 domain

## ALIGNMENTS

156	36	100.0	99	24	ABG74226	Zinc finger protei
157	36	100.0	196	21	AAE07701	Zinc finger protei
158	36	100.0	196	22	AAE08714	Human ZFP-vascular
159	36	100.0	196	23	AAE21123	5 finger protein u
160	36	100.0	196	23	ABB07136	6-finger Zinc fing
161	36	100.0	196	24	ABG74228	6 finger-ZFP VEGF3
162	36	100.0	1387	21	AAV95441	Caenorhabditis ele

RESULT 1  
AAE08729  
ID AAE08729 standard; peptide; 7 AA.

XX AC AAE08729;  
XX DT 15-NOV-2001 (first entry)

Query Match 100.0%; Score 36; DB 22; Length 7;  
Best local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 2  
AAB84235  
ID AAB84235 standard; peptide; 7 AA.  
XX  
AC AAB84235;  
XX  
DT 06-AUG-2001 (first entry)  
XX  
DE Zinc protein recognition helix SBS3 for target DNA triplet GGG.  
XX  
KM Phenotype associated gene; zinc finger protein; cancer; nephritis;  
KW prostate hypertrophy; hematopoiesis; osteoporosis; obesity;  
XX cardiovascular disease; diabetes.  
OS Synthetic.  
XX  
PN WO200140798-A2.  
PD 07-JUN-2001.  
XX  
PF 06-DEC-2000; 2000WO-US33086.  
XX  
PR 06-DEC-1999; 99US-0456100.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Case CC, Liu Q, Rebar EJ;  
XX  
DR WPI; 2001-374953/39.  
XX  
PT Identifying genes associated with selected phenotype for research  
PT purposes, involves culturing cells transduced with nucleic acid  
PT encoding zinc finger proteins and assaying cells exhibiting selected  
PT phenotype -  
XX  
PS Example 1; Page 36; 58pp; English.  
XX  
CC The specification describes a method for identifying genes associated  
CC with a selected phenotype. The method involves providing a library of  
CC nucleotide sequences encoding partially randomized zinc finger proteins,  
CC transducing cells with expression vectors, each comprising a sequence  
CC from the library, culturing the cells for expressing a sequence  
CC protein, assaying the cells for selected phenotype, and identifying the  
CC gene of interest, in cells exhibiting the phenotype. The method is useful  
CC for identifying a gene or genes associated with a selected phenotype such  
CC as the one related to cancer, nephritis, prostate hypertrophy,  
CC hematopoiesis, osteoporosis, obesity, cardiovascular disease or diabetes.  
CC The method is useful in academic laboratories, in the biotechnological  
CC industries, and in pharmaceutical, genomic, agricultural and chemical  
CC companies. AAB84233-44 represent recognition helices of zinc finger  
CC proteins, which recognise different DNA triplets.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 22; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
|||  
DT 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 3  
AAB84247  
ID AAB84247 standard; peptide; 7 AA.  
XX  
AC AAB84247;  
XX  
DT 06-AUG-2001 (first entry)  
XX

DE Amino acid sequence of finger 3 of a zinc finger protein.  
XX  
KM Phenotype associated gene; zinc finger protein; cancer; nephritis;  
KW prostate hypertrophy; hematopoiesis; osteoporosis; obesity;  
XX cardiovascular disease; diabetes.  
OS Synthetic.  
XX  
PN WO200140798-A2.  
PD 07-JUN-2001.  
XX  
PF 06-DEC-2000; 2000WO-US33086.  
XX  
PR 06-DEC-1999; 99US-0456100.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Case CC, Liu Q, Rebar EJ;  
XX  
DR WPI; 2001-374953/39.  
XX  
PT Identifying genes associated with selected phenotype for research  
PT purposes, involves culturing cells transduced with nucleic acid  
PT encoding zinc finger proteins and assaying cells exhibiting selected  
PT phenotype -  
XX  
PS Example 1; Page 41; 58pp; English.  
XX  
CC The specification describes a method for identifying genes associated  
CC with a selected phenotype. The method involves providing a library of  
CC nucleotide sequences encoding partially randomized zinc finger proteins,  
CC transducing cells with expression vectors, each comprising a sequence  
CC from the library, culturing the cells for expressing the zinc finger  
CC protein, assaying the cells for selected phenotype, and identifying the  
CC gene of interest, in cells exhibiting the phenotype. The method is useful  
CC for identifying a gene or genes associated with a selected phenotype such  
CC as the one related to cancer, nephritis, prostate hypertrophy,  
CC hematopoiesis, osteoporosis, obesity, cardiovascular disease or diabetes.  
CC The method is useful in academic laboratories, in the biotechnological  
CC industries, and in pharmaceutical, genomic, agricultural and chemical  
CC companies. The present sequence represents a finger of a zinc finger  
CC protein.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 22; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
|||  
DT 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 4  
AAO22249  
ID AAO22249 standard; Peptide; 7 AA.  
XX  
AC AAO22249;  
XX  
DT 11-OCT-2002 (first entry)  
XX  
DE Zinc finger protein #7F3 peptide SEQ ID No 66.  
XX  
KM Non-canonical zinc finger binding protein; ZFP; gene therapy.  
XX  
OS Arabidopsis thaliana.  
XX  
PN WO200257293-A2.  
XX  
PD 25-JUL-2002.  
XX



PF 22-JAN-2002; 2002WO-US01893.  
XX  
PR 22-JAN-2001; 2001US-263445P.  
PR 11-MAY-2001; 2001US-290716P.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A;  
XX  
DR WPI; 2002-566791/60.  
XX  
PT Non-canonical zinc finger binding protein for modulating gene  
PT expression comprises non-canonical zinc finger components that bind to  
PT a target sequence -  
XX  
PS Example 7; Page 51; 63pp; English.  
XX  
CC The invention relates to an isolated, non-canonical (e.g., non-C2H2) zinc  
CC finger binding protein (ZFP) comprising one or more non-canonical zinc  
CC finger components that bind to a target sequence. A fusion polypeptide of  
CC the invention is useful for modulating expression of a gene. The non-  
CC canonical ZFP and its encoding polynucleotide, and a fusion protein  
CC comprising the non-canonical ZFP and its encoding polynucleotide can be  
CC used to treat disease. The non-canonical ZFP can be used in diagnostic  
CC assays and to link phenotype to expression of particular genes. The  
CC polynucleotide encoding the non-canonical ZFP can be used to treat  
CC disorders by gene therapy. This sequence represents a peptide relating to  
CC the zinc finger binding protein of the invention.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 RSDHLRSR 7  
Db 1 RSDHLRSR 7  
  
RESULT 5  
ABB83583  
ID ABB83583 standard; peptide; 7 AA.  
XX  
AC ABB83583;  
XX  
DT 27-SEP-2002 (first entry)  
XX  
DE F3 zinc finger for target sequence ZFP 7.  
XX  
KW Zinc finger; stress tolerance; pathogen resistance;  
KW agrochemical.  
XX  
OS Unidentified.  
XX  
PN WO200257294-A2.  
XX  
PD 25-JUL-2002.  
XX  
PF 22-JAN-2002; 2002WO-US01906.  
XX  
PR 22-JAN-2001; 2001US-263445P.  
PR 11-MAY-2001; 2001US-290716P.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Jamieson A, Li G;  
XX  
DR WPI; 2002-566792/60.  
XX  
PT Modified plant zinc finger protein for modulating gene expression in a  
PT plant cell comprises zinc fingers that bind to a target site -  
XX

PS Example 4; Page 42; 50pp; English.  
XX  
CC The present invention relates to a modified plant zinc finger  
CC protein. This zinc finger protein is used to modulate gene  
CC expression in a plant cell. Nucleic acid encoding the zinc finger is  
CC expressed in plant cells to produce a plant with an altered phenotype  
CC relative to the wild-type plant. The altered phenotype is high in  
CC nutritional value, yield, stress tolerance, pathogen resistance,  
CC resistance to agrochemicals, production of pharmaceutical compounds or  
CC production of industrial chemicals. The present sequence is  
CC a zinc finger protein sequence that is attracted to a ZFP target  
CC sequence.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 RSDHLRSR 7  
Db 1 RSDHLRSR 7  
  
RESULT 6  
ABJ03821  
ID ABJ03821 standard; Peptide; 7 AA.  
XX  
AC ABJ03821;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 64.  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KW anticancer; cytostatic; antiproliferative; antidiabetic; ophthalmological;  
KW osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.

XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db

RESULT 7  
ABJ03825  
ID ABJ03825 standard; Peptide; 7 AA.

AC ABJ03825;  
XX  
DT 25-SEP-2002 (first entry)

DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 68.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
KM antilucer; cytoslatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.

OS Homo sapiens.

PN WO200246412-A2.

PD 13-JUN-2002.

PF 06-DEC-2001; 2001WO-US46861.

PR 07-DEC-2000; 2000US-0733604.

PR 12-DEC-2000; 2000US-0736083.

PR 30-APR-2001; 2001US-0846033.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;

DR WPI; 2002-527918/56.

XX New zinc finger protein that binds to target site in vascular

PT endothelial growth factor gene, useful for modulating expression of the

PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

PT ulcer -

PS Claim 4; Page 102; 195pp; English.

CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.

XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db

RESULT 8  
ABJ03848  
ID ABJ03848 standard; Peptide; 7 AA.

AC ABJ03848;  
XX  
DT 25-SEP-2002 (first entry)

DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 91.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
KM antilucer; cytoslatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.

OS Homo sapiens.

PN WO200246412-A2.

PD 13-JUN-2002.

PF 06-DEC-2001; 2001WO-US46861.

PR 07-DEC-2000; 2000US-0733604.

PR 12-DEC-2000; 2000US-0736083.

PR 30-APR-2001; 2001US-0846033.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;

DR WPI; 2002-527918/56.

XX New zinc finger protein that binds to target site in vascular

PT endothelial growth factor gene, useful for modulating expression of the

PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

PT ulcer -

PS Claim 4; Page 102; 195pp; English.

CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.

XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db

RESULT 9  
ABJ03858  
ID ABJ03858 standard; Peptide; 7 AA.

AC ABJ03858;

DT 25-SEP-2002 (first entry)

DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 101.

XX Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;

KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KM antiulcer; cytostatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
QY  
Db 1 RSDHLSR 7  
1 RSDHLSR 7  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
RESULT 10  
ABJ03859  
ID ABJ03859 standard; Peptide; 7 AA.  
XX  
AC ABJ03859;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 102.  
XX  
KM Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KM antiulcer; cytostatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX

PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
QY  
Db 1 RSDHLSR 7  
1 RSDHLSR 7  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
RESULT 11  
ABJ03860  
ID ABJ03860 standard; Peptide; 7 AA.  
XX  
AC ABJ03860;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 103.  
XX  
KM Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KM antiulcer; cytostatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular

PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 12  
ABJ03861  
ID ABJ03861 standard; Peptide; 7 AA.  
XX  
AC ABJ03861;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 104.  
XX  
XX zinc finger protein; angiogenesis; vasculogenesis; ischemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
KM antiulcer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP,  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide

CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 13  
ABJ03862  
ID ABJ03862 standard; Peptide; 7 AA.  
XX  
AC ABJ03862;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 105.  
XX  
XX zinc finger protein; angiogenesis; vasculogenesis; ischemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
KM antiulcer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP,  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 14  
ABJ03863  
ID ABJ03863 standard; Peptide; 7 AA.  
XX  
AC ABJ03863;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 106.  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
antitumor; cytostatic; antipsoriatic; antidiabetic; ophthalmological;  
osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7  
XX  
RESULT 15  
ABJ03866  
ID ABJ03866 standard; Peptide; 7 AA.  
XX  
AC ABJ03866;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 109.  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;

KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KW antitumor; cytostatic; antipsoriatic; antidiabetic; ophthalmological;  
KW osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
DR WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Claim 4; Page 102; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7  
XX  
RESULT 16  
ABJ03868  
ID ABJ03868 standard; Peptide; 7 AA.  
XX  
AC ABJ03868;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 111.  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KW antitumor; cytostatic; antipsoriatic; antidiabetic; ophthalmological;  
KW osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.



XX 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
XX WPI; 2002-527918/56.  
DR  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
XX  
PS Claim 4; Page 102; 195pp; English.  
PS  
XX The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
XX Sequence 7 AA;  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 RSDHLR 7  
Db 1 RSDHLR 7  
RESULT 17  
ABJ03870  
ID ABJ03870 standard; Peptide; 7 AA.  
XX  
AC ABJ03870;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 113.  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischemia;  
KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KW antiulcer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;  
KW osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
XX WPI; 2002-527918/56.  
DR  
XX

PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
XX Claim 4; Page 103; 195pp; English.  
XX  
XX The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
XX Sequence 7 AA;  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 RSDHLR 7  
Db 1 RSDHLR 7  
RESULT 18  
ABJ03871  
ID ABJ03871 standard; Peptide; 7 AA.  
XX  
XX ABJ03871;  
AC  
XX 25-SEP-2002 (first entry)  
DT  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 114.  
XX  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischemia;  
KW diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KW antiulcer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;  
KW osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX  
XX WPI; 2002-527918/56.  
DR  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
XX Claim 4; Page 103; 195pp; English.  
XX  
XX The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC



CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.

XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 19  
ABJ03873  
ID ABJ03873 standard; Peptide; 7 AA.

XX  
AC ABJ03873;

XX  
DT 25-SEP-2002 (first entry)

XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 116.

XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
ant ulcer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;  
osteopathic; antiinfertility.

XX  
OS Homo sapiens.

XX  
PN WO200246412-A2.

XX  
PD 13-JUN-2002.

XX  
PF 06-DEC-2001; 2001WO-US46861.

XX  
PR 07-DEC-2000; 2000US-0733604.

XX  
PR 12-DEC-2000; 2000US-0736083.

XX  
PR 30-APR-2001; 2001US-0846033.

XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.

XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;

XX  
PI Jarvis E;

XX  
DR WPI; 2002-527918/56.

XX  
PT New zinc finger protein that binds to target site in vascular

XX  
PT endothelial growth factor gene, useful for modulating expression of the

XX  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

XX  
PT ulcer

XX  
PS Claim 4; Page 103; 195pp; English.

XX  
CC The present invention relates to a zinc finger protein that binds to a

XX  
CC target site in one or more vascular endothelial growth factor (VEGF)

XX  
CC genes. The protein is useful for modulating expression of a VEGF gene,

XX  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to

XX  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,

XX  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide

XX  
SQ Sequence 7 AA;

XX  
SQ Sequence 7 AA;

RESULT 20  
ABJ03897  
ID ABJ03897 standard; Peptide; 7 AA.

XX  
AC ABJ03897;

XX  
DT 25-SEP-2002 (first entry)

XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 154.

XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
ant ulcer; cyostatic; antipsoriatic; antidiabetic; ophthalmological;  
osteopathic; antiinfertility.

XX  
OS Homo sapiens.

XX  
PN WO200246412-A2.

XX  
PD 13-JUN-2002.

XX  
PF 06-DEC-2001; 2001WO-US46861.

XX  
PR 07-DEC-2000; 2000US-0733604.

XX  
PR 12-DEC-2000; 2000US-0736083.

XX  
PR 30-APR-2001; 2001US-0846033.

XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.

XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;

XX  
PI Jarvis E;

XX  
DR WPI; 2002-527918/56.

XX  
PT New zinc finger protein that binds to target site in vascular

XX  
PT endothelial growth factor gene, useful for modulating expression of the

XX  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or

XX  
PT ulcer

XX  
PS Example 1; Page 104; 195pp; English.

XX  
CC The present invention relates to a zinc finger protein that binds to a

XX  
CC target site in one or more vascular endothelial growth factor (VEGF)

XX  
CC genes. The protein is useful for modulating expression of a VEGF gene,

XX  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to

XX  
CC treat atherosclerosis, ischaemia, arthritis, wounds, ulcers, tumours,

XX  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide

XX  
SQ Sequence 7 AA;

XX  
SQ Sequence 7 AA;

XX  
SQ Sequence 7 AA;

XX  
SQ Sequence 7 AA;

XX  
SQ Sequence 7 AA;

KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
KM antiulcer; cytosstatic; antipsoriatic; antidiabetic; ophthalmological;  
XX osteopathic; antiinfertility.  
OS Homo sapiens.  
XX WO200246412-A2.  
XX 13-JUN-2002.  
XX PF 06-DEC-2001; 2001WO-US46861.  
XX PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX WPI; 2002-527918/56.  
XX DR WPI; 2002-527918/56.  
XX PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX PS Example 1; Page 104; 195pp; English.  
XX CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX SQ Sequence 7 AA;  
SQ Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 22  
ABJ03912  
ID ABJ03912 standard; Peptide; 7 AA.  
XX AC ABJ03912;  
XX DT 25-SEP-2002 (first entry)  
XX DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 169.  
XX KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
KM antiulcer; cytosstatic; antipsoriatic; antidiabetic; ophthalmological;  
XX osteopathic; antiinfertility.  
OS Homo sapiens.  
XX WO200246412-A2.  
XX 13-JUN-2002.

PF 06-DEC-2001; 2001WO-US46861.  
XX PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX WPI; 2002-527918/56.  
XX DR WPI; 2002-527918/56.  
XX PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX PS Example 1; Page 104; 195pp; English.  
XX CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX SQ Sequence 7 AA;  
SQ Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 23  
ABJ03915  
ID ABJ03915 standard; Peptide; 7 AA.  
XX AC ABJ03915;  
XX DT 25-SEP-2002 (first entry)  
XX DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 172.  
XX KW Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KW gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnerary;  
KM antiulcer; cytosstatic; antipsoriatic; antidiabetic; ophthalmological;  
XX osteopathic; antiinfertility.  
OS Homo sapiens.  
XX WO200246412-A2.  
XX 13-JUN-2002.  
XX PF 06-DEC-2001; 2001WO-US46861.  
XX PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;  
PI Jarvis E;  
XX WPI; 2002-527918/56.

XX New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Example 1; Page 104; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLR 7  
Db 1 RSDHLR 7  
RESULT 24  
ABJ03917 standard; Peptide; 7 AA.  
XX  
AC ABJ03917;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 174.  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KM antiulcer; cytosstatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;  
PI Jarvis E;  
XX  
XX WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Example 1; Page 104; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis and vasculogenesis. This can be used to

CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLR 7  
Db 1 RSDHLR 7  
RESULT 25  
ABJ03920 standard; Peptide; 7 AA.  
XX  
AC ABJ03920;  
XX  
DT 25-SEP-2002 (first entry)  
XX  
DE Human VEGF-targeted zinc finger protein fragment SEQ ID NO: 177.  
XX  
KW Zinc finger protein; angiogenesis; vasculogenesis; ischemia;  
KM diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;  
KM gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;  
KM antiulcer; cytosstatic; antipsoriatic; antidiabetic; ophthalmological;  
KM osteopathic; antiinfertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200246412-A2.  
XX  
PD 13-JUN-2002.  
XX  
PF 06-DEC-2001; 2001WO-US46861.  
XX  
PR 07-DEC-2000; 2000US-0733604.  
PR 12-DEC-2000; 2000US-0736083.  
PR 30-APR-2001; 2001US-0846033.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Rebar E, Jamieson A, Liu Q, Liu P, Wolfe A, Eisenberg SP;  
PI Jarvis E;  
XX  
XX WPI; 2002-527918/56.  
XX  
PT New zinc finger protein that binds to target site in vascular  
PT endothelial growth factor gene, useful for modulating expression of the  
PT gene and for treating atherosclerosis, ischemia, arthritis, wound or  
PT ulcer -  
XX  
PS Example 1; Page 104; 195pp; English.  
XX  
CC The present invention relates to a zinc finger protein that binds to a  
CC target site in one or more vascular endothelial growth factor (VEGF)  
CC genes. The protein is useful for modulating expression of a VEGF gene,  
CC thereby regulating angiogenesis and vasculogenesis. This can be used to  
CC treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,  
CC diabetic retinopathy or psoriasis. The present sequence is a peptide  
CC shown in the invention.  
XX  
SQ Sequence 7 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLR 7

DB	1 RSDHLNR	7	
	RESULT 26		
ID	ABJ03939	standard; Peptide; 7 AA.	
XX	AC	ABJ03939;	
XX	DT	25-SEP-2002 (first entry)	
XX	DE	Rat VEGF-targeted zinc finger protein fragment SEQ ID NO: 200.	
XX	KM	Zinc finger protein; angiogenesis; vasculogenesis; ischaemia;	
XX	KM	diabetic retinopathy; psoriasis; arthropathy; cancer; tumour growth;	
XX	KM	gene therapy; antiatherosclerotic; vasotropic; antiarthritic; vulnery;	
XX	KM	antulcer; cytostatic; antipsoriatic; antidiabetic; ophthalmological;	
XX	KM	osteopathic; antiinfertility.	
XX	OS	Rattus sp.	
XX	PN	WO200246412-A2.	
XX	PD	13-JUN-2002.	
XX	PF	06-DEC-2001; 2001WO-US46861.	
XX	PR	07-DEC-2000; 2000US-0733604.	
XX	PR	12-DEC-2000; 2000US-0736083.	
XX	PR	30-APR-2001; 2001US-0846033.	
XX	PA	(SANG-) SANGAMO BIOSCIENCES INC.	
XX	PI	Rebar E, Jamieson A, Liu Q, Liu P, Wolffe A, Eisenberg SP;	
XX	PI	Jarvis E;	
XX	DR	WPI; 2002-527918/56.	
XX	PT	New zinc finger protein that binds to target site in vascular	
XX	PT	endothelial growth factor gene, useful for modulating expression of the	
XX	PT	gene and for treating atherosclerosis, ischemia, arthritis, wound or	
XX	PT	ulcer -	
XX	PS	Disclosure; Page 105; 195pp; English.	
XX	CC	The present invention relates to a zinc finger protein that binds to a	
XX	CC	target site in one or more vascular endothelial growth factor (VEGF)	
XX	CC	genes. The protein is useful for modulating expression of a VEGF gene,	
XX	CC	thereby regulating angiogenesis and vasculogenesis. This can be used to	
XX	CC	treat atherosclerosis, ischemia, arthritis, wounds, ulcers, tumours,	
XX	CC	diabetic retinopathy or psoriasis. The present sequence is a peptide	
XX	CC	shown in the invention.	
XX	SQ	Sequence 7 AA;	
QY	Query Match	100.0%; Score 36; DB 23; Length 7;	
	Best Local Similarity	100.0%; Pred. No. 9.3e+05;	
	Matches 7; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
DB	1 RSDHLNR	7	
	1 RSDHLNR	7	
	RESULT 27		
ID	ABB80809	standard; peptide; 7 AA.	
XX	AC	ABB80809;	
XX	DT	23-SEP-2002 (first entry)	
XX	DE	Human ER-alpha locus targeting ZFP3 peptide #1.	

XX	ZFP; cytosstatic; antidiabetic; ophthalmological; vasotropic; chromatin;
KW	gene expression; antirheumatic; antiarthritic; antipsoriatic; nootropic;
KM	neuroprotective; cerebroprotective; estrogen receptor alpha; ER-alpha;
KW	zinc finger protein.
XX	
OS	Synthetic.
XX	
PN	WO200244386-A2.
XX	
PD	06-JUN-2002.
XX	
PJ	30-NOV-2001; 2001WO-US45098.
XX	
PR	01-DEC-2000; 2000US-250804P.
PA	(SANG-) SANGAMO BIOSCIENCES INC.
XX	
PI	Wolffe AP, Tse C, Collingwood T;
XX	
DR	WPI; 2002-537455/57.
XX	
PT	Regulating expression of gene by contacting cell with regulatory
PT	molecule comprising DNA-binding domain targeted to sequence within
PT	accessible region of cellular chromatin associated with a gene, and
PT	functional domain -
PS	
XX	Example 1; Page 44; 64pp; English.
XX	
CC	The invention relates to regulating the expression of a gene residing in
CC	the chromatin of a cell. The method involves identifying one or more
CC	accessible regions in cellular chromatin associated with gene; designing
CC	a regulatory molecule, where the regulatory molecule comprises a DNA-
CC	binding domain targeted to a sequence within the accessible region, and a
CC	functional domain; and contacting the regulatory molecule with the cell.
CC	The method is used for regulating the expression of a gene (e.g., a gene
CC	encoding a nuclear receptor such as estrogen receptor alpha (ERalpha),
CC	estrogen receptor beta (ERbeta), hepatocyte nuclear factor 4 alpha
CC	(HNF4alpha), hepatocyte nuclear factor 4 gamma (HNF4gamma), peroxisome
CC	proliferator activated receptor gamma (PPARGamma), retinoid X receptor
CC	alpha (RXRalpha), or constitutively active receptor alpha (CARalpha))
CC	residing in the chromatin of a cell. Regulation of gene expression (such
CC	as nuclear receptor genes) will be useful in treatment of various
CC	diseases, including cancer, diabetes and cardiovascular disease, where
CC	the regulatory molecule as described above, is contacted with the cell to
CC	carry out the regulation. The method is also useful for modulation of
CC	gene expression for therapeutic or prophylactic applications e.g.,
CC	diabetic retinopathy, ischemia, macular degeneration, rheumatoid
CC	arthritis, psoriasis, HIV infection, sickle cell anemia, Alzheimer's
CC	disease, stroke, etc. The method also has applications in pharmaceutical
CC	research of both nuclear receptors of known function as well as those of
CC	unknown function. The method also facilitates development of tissue and
CC	animal models of disease states, drug validation, and therapeutic product
CC	development. The methods also allow identification of the role of nuclear
CC	receptors of unknown functions in cellular homeostasis. Sequences
CC	ABB80791-817 represent zinc finger protein (ZFP) DNA-binding domains that
CC	were fused to functional domains and tested for their ability to regulate
CC	expression of the ER in living cells.
XX	
SQ	Sequence      7 AA;
	Query Match                  100.0%; Score 36; DB 23; Length 7;
	Best Local Similarity    100.0%; Pred. NO. 9.3e+05;
	Matches         7; Conservative         0; Mismatches         0; Indels         0; Gaps         0;
OY	1 RSDHLNR 7
Db	1 RSDHLNR 7

RESULT 28  
 ABB80811  
 ID    ABB80811 standard; peptide; 7 AA.



XX ABB80811;  
AC  
XX 23-SEP-2002 (first entry)  
DT  
XX  
DE Human ER-alpha locus targeting ZFP3 peptide #3.  
XX  
XX ZFP; cytosolic; antidiabetic; ophthalmological; vasotropic; chromatin;  
KW gene expression; antirheumatic; antiarthritic; antipsoriatic; nootropic;  
KW neuroprotective; cerebroprotective; estrogen receptor alpha; ER-alpha;  
KW zinc finger protein.  
XX  
OS Synthetic.  
XX  
XX WO200244386-A2.  
PN  
XX  
PD 06-JUN-2002.  
XX  
XX 30-NOV-2001; 2001WO-US45098.  
PF  
XX 01-DEC-2000; 2000US-250804P.  
PR  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
PA  
XX  
PI Wolffe AP, Tse C, Collingwood T;  
XX  
DR WPI; 2002-537455/57.  
XX  
XX  
PT Regulating expression of gene by contacting cell with regulatory  
PT molecule comprising DNA-binding domain targeted to sequence within  
PT accessible region of cellular chromatin associated with a gene, and  
PT functional domain  
XX  
PS Example 1; Page 44; 64pp; English.  
XX  
XX The invention relates to regulating the expression of a gene residing in  
CC the chromatin of a cell. The method involves identifying one or more  
CC accessible regions in cellular chromatin associated with gene; designing  
CC a regulatory molecule, where the regulatory molecule comprises a DNA-  
CC binding domain targeted to a sequence within the accessible region, and a  
CC functional domain; and contacting the regulatory molecule with the cell.  
CC The method is used for regulating the expression of a gene (e.g., a gene  
CC encoding a nuclear receptor such as estrogen receptor alpha (ERalpha),  
CC estrogen receptor beta (ERbeta), hepatocyte nuclear factor 4 alpha  
CC (HNF4alpha), hepatocyte nuclear factor 4 gamma (HNF4gamma), peroxisome  
CC proliferator activated receptor gamma (PPARGgamma), retinoid X receptor  
CC alpha (RXRalpha), or constitutively active receptor alpha (CARalpha))  
CC residing in the chromatin of a cell. Regulation of gene expression (such  
CC as nuclear receptor genes) will be useful in treatment of various  
CC diseases, including cancer, diabetes and cardiovascular disease, where  
CC the regulatory molecule as described above, is contacted with the cell to  
CC carry out the regulation. The method is also useful for modulation of  
CC gene expression for therapeutic or prophylactic applications e.g.,  
CC diabetic retinopathy, ischaemia, macular degeneration, rheumatoid  
CC arthritis, psoriasis, HIV infection, sickle cell anemia, Alzheimer's  
CC disease, stroke, etc. The method also has applications in pharmaceutical  
CC research of both nuclear receptors of known function as well as those of  
CC unknown function. The method also facilitates development of tissue and  
CC animal models of disease states, drug validation, and therapeutic product  
CC development. The methods also allow identification of the role of nuclear  
CC receptors of unknown functions in cellular homeostasis. Sequences  
CC ABB80791-817 represent zinc finger protein (ZFP) DNA-binding domains that  
CC were fused to functional domains and tested for their ability to regulate  
CC expression of the ER in living cells.  
XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||

DB 1 RSDHLSR 7

RESULT 29

ABB98009 standard; Peptide; 7 AA.

ID ABB98009;

XX

AC 06-SEP-2002 (first entry)

DT

XX

DE Zinc finger protein 3 finger 3 peptide.

XX

KW Human; heparanase; cytosolic; vasotropic; antidiabetic; anti-HIV;  
KW ophthalmological; antirheumatic; antiarthritic; antipsoriatic;  
KW antianaemic; neuroprotective; nootropic; cerebroprotective;  
KW antibacterial; virucide; protozoacide; fungicide; antiinflammatory;  
KW cardiant; immunosuppressive; tumour metastasis; inflammatory disease;  
KW allograft rejection; cell migration; angiogenesis; basement membrane;  
KW extracellular matrix; cancer; ischaemia; diabetic retinopathy;  
KW macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;  
KW sickle cell anaemia; Alzheimer's disease; muscular dystrophy;  
KW neurodegenerative disease; vascular disease; cardiovascular disease;  
KW cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200244353-A2.  
PN  
XX  
XX 06-JUN-2002.  
PD  
XX  
XX 30-NOV-2001; 2001WO-US44798.  
PF  
XX  
XX 30-NOV-2000; 2000US-250690P.  
PR  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
PA  
XX  
PI Wolffe AP, Qi H;  
XX  
DR WPI; 2002-527708/56.  
XX  
XX New heparanase polynucleotide, useful for controlling disease states  
PT such as tumour metastasis, inflammatory diseases and allograft rejection  
PT  
PT  
XX  
PS Example 3; Page 49; 72pp; English.  
XX  
XX The invention relates to novel heparanase sequences, particularly novel  
CC sequences from the regulatory regions upstream and downstream of the  
CC coding region. The activity of polynucleotides of the invention may be  
CC described as, cytosolic, vasotropic, antidiabetic, anti-HIV,  
CC ophthalmological, antirheumatic, antiarthritic, antipsoriatic,  
CC antianaemic, neuroprotective, nootropic, cerebroprotective,  
CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,  
CC cardiant and immunosuppressive. Modulating expression of heparanase gene  
CC using constructs of the invention is useful for facilitating targeted  
CC control of disease states such as tumour metastasis, inflammatory  
CC diseases, allograft rejection, and for inhibiting processes such as cell  
CC migration, angiogenesis, and degradation of the basement membrane and/or  
CC extracellular matrix. Heparanase-targeted DNA binding domains modulates  
CC gene expression, and are useful for therapeutic or prophylactic  
CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular  
CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell  
CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative  
CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,  
CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs  
CC of the invention may also be useful in gene therapy. The current sequence  
CC represents a finger of a three-finger ZFP (zinc finger protein), which  
CC has a target site in the human heparanase gene.  
XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
|||  
Db 1 RSDHLR 7

RESULT 30

ABB98015

ID ABB98015 standard; Peptide; 7 AA.

XX ABB98015;

DT 06-SEP-2002 (first entry)

DE Zinc finger protein 5 finger 3 peptide.

Human; heparanase; cytosstatic; vasotropic; antidiabetic; anti-HIV;  
ophthalmological; antirheumatic; antiarthritic; antipsoriatic;  
antianaemic; neuroprotective; nootropic; cerebroprotective;  
antibacterial; virucide; protozoacide; fungicide; antiinflammatory;  
cardiant; immunosuppressive; tumour metastasis; inflammatory disease;  
allograft rejection; cell migration; angiogenesis; basement membrane;  
extracellular matrix; cancer; ischaemia; diabetic retinopathy;  
macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;  
sickle cell anaemia; Alzheimer's disease; muscular dystrophy;  
neurodegenerative disease; vascular disease; cardiovascular disease;  
cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.

OS Homo sapiens.

PN WO200244353-A2.

PD 06-JUN-2002.

PF 30-NOV-2001; 2001WO-US44798.

PR 30-NOV-2000; 2000US-250690P.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Wolffe AP, Qi H;

DR WPI; 2002-527708/56.

PT New heparanase polynucleotide, useful for controlling disease states  
PT such as tumour metastasis, inflammatory diseases and allograft rejection

PS Example 3; Page 49; 72pp; English.

XX The invention relates to novel heparanase sequences, particularly novel  
CC sequences from the regulatory regions upstream and downstream of the  
CC coding region. The activity of polynucleotides of the invention may be  
CC described as, cytosstatic, vasotropic, antidiabetic, anti-HIV,  
CC ophthalmological, antirheumatic, antiarthritic, antipsoriatic,  
CC antianaemic, neuroprotective, nootropic, cerebroprotective,  
CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,  
CC cardiant and immunosuppressive. Modulating expression of heparanase gene  
CC using constructs of the invention is useful for facilitating targeted  
CC control of disease states such as tumour metastasis, inflammatory  
CC diseases, allograft rejection, and for inhibiting processes such as cell  
CC migration, angiogenesis, and degradation of the basement membrane and/or  
CC extracellular matrix. Heparanase-targeted DNA binding domains modulates  
CC gene expression, and are useful for therapeutic or prophylactic  
CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular  
CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell  
CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative  
CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,  
CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs  
CC of the invention may also be useful in gene therapy. The current sequence  
CC represents a finger of a three-finger ZFP (zinc finger protein), which

CC has a target site in the human heparanase gene.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
|||  
Db 1 RSDHLR 7

RESULT 31

ABB98036

ID ABB98036 standard; Peptide; 7 AA.

XX ABB98036;

DT 06-SEP-2002 (first entry)

DE Zinc finger protein 12 finger 3 peptide.

Human; heparanase; cytosstatic; vasotropic; antidiabetic; anti-HIV;  
ophthalmological; antirheumatic; antiarthritic; antipsoriatic;  
antianaemic; neuroprotective; nootropic; cerebroprotective;  
antibacterial; virucide; protozoacide; fungicide; antiinflammatory;  
cardiant; immunosuppressive; tumour metastasis; inflammatory disease;  
allograft rejection; cell migration; angiogenesis; basement membrane;  
extracellular matrix; cancer; ischaemia; diabetic retinopathy;  
macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;  
sickle cell anaemia; Alzheimer's disease; muscular dystrophy;  
neurodegenerative disease; vascular disease; cardiovascular disease;  
cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.

OS Homo sapiens.

PN WO200244353-A2.

PD 06-JUN-2002.

PF 30-NOV-2001; 2001WO-US44798.

PR 30-NOV-2000; 2000US-250690P.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Wolffe AP, Qi H;

DR WPI; 2002-527708/56.

PT New heparanase polynucleotide, useful for controlling disease states  
PT such as tumour metastasis, inflammatory diseases and allograft rejection

PS Example 3; Page 49; 72pp; English.

XX The invention relates to novel heparanase sequences, particularly novel  
CC sequences from the regulatory regions upstream and downstream of the  
CC coding region. The activity of polynucleotides of the invention may be  
CC described as, cytosstatic, vasotropic, antidiabetic, anti-HIV,  
CC ophthalmological, antirheumatic, antiarthritic, antipsoriatic,  
CC antianaemic, neuroprotective, nootropic, cerebroprotective,  
CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,  
CC cardiant and immunosuppressive. Modulating expression of heparanase gene  
CC using constructs of the invention is useful for facilitating targeted  
CC control of disease states such as tumour metastasis, inflammatory  
CC diseases, allograft rejection, and for inhibiting processes such as cell  
CC migration, angiogenesis, and degradation of the basement membrane and/or  
CC extracellular matrix. Heparanase-targeted DNA binding domains modulates  
CC gene expression, and are useful for therapeutic or prophylactic  
CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular  
CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell



CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative  
CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,  
CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs  
CC of the invention may also be useful in gene therapy. The current sequence  
CC represents a finger of a three-finger ZFP (zinc finger protein), which  
CC has a target site in the human heparanase gene.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 32  
ABB98048  
ID ABB98048 standard; Peptide; 7 AA.  
XX  
AC ABB98048;  
XX  
DT 06-SEP-2002 (first entry)  
XX  
DE Zinc finger protein 16 finger 3 peptide.  
XX  
KW Human; heparanase; cytosstatic; vasotropic; antidiabetic; anti-HIV;  
KW ophthalmological; antirheumatic; antiarthritic; antipsoriatic;  
KW antianaemic; neuroprotective; nootropic; cerebroprotective;  
KW antibacterial; virucide; protozoacide; fungicide; antiinflammatory;  
KW cardiant; immunosuppressive; tumour metastasis; inflammatory disease;  
KW allograft rejection; cell migration; angiogenesis; basement membrane;  
KW extracellular matrix; cancer; ischaemia; diabetic retinopathy;  
KW macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;  
KW sickle cell anaemia; Alzheimer's disease; muscular dystrophy;  
KW neurodegenerative disease; vascular disease; cardiovascular disease;  
KW cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.  
XX  
OS Homo sapiens.  
XX  
PN WO200244353-A2.  
XX  
PD 06-JUN-2002.  
XX  
PF 30-NOV-2001; 2001WO-US44798.  
XX  
PR 30-NOV-2000; 2000US-250690P.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Wolffe AP, Qi H;  
XX  
DR WPI; 2002-527708/56.  
XX  
PT New heparanase polynucleotide, useful for controlling disease states  
PT such as tumour metastasis, inflammatory diseases and allograft rejection  
PT  
XX  
PS Example 3; Page 49; 72pp; English.  
XX  
CC The invention relates to novel heparanase sequences, particularly novel  
CC sequences from the regulatory regions upstream and downstream of the  
CC coding region. The activity of polynucleotides of the invention may be  
CC described as, cytostatic, vasotropic, antidiabetic, anti-HIV,  
CC ophthalmological, antirheumatic, antiarthritic, antipsoriatic,  
CC antianaemic, neuroprotective, nootropic, cerebroprotective,  
CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,  
CC cardiant and immunosuppressive. Modulating expression of heparanase gene  
CC using constructs of the invention is useful for facilitating targeted  
CC control of disease states such as tumour metastasis, inflammatory  
CC diseases, allograft rejection, and for inhibiting processes such as cell

CC migration, angiogenesis, and degradation of the basement membrane and/or  
CC extracellular matrix. Heparanase-targeted DNA binding domains modulates  
CC gene expression, and are useful for therapeutic or prophylactic  
CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular  
CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell  
CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative  
CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,  
CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs  
CC of the invention may also be useful in gene therapy. The current sequence  
CC represents a finger of a three-finger ZFP (zinc finger protein), which  
CC has a target site in the human heparanase gene.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 33  
ABB98063  
ID ABB98063 standard; Peptide; 7 AA.  
XX  
AC ABB98063;  
XX  
DT 06-SEP-2002 (first entry)  
XX  
DE Zinc finger protein 20 finger 3 peptide.  
XX  
KW Human; heparanase; cytosstatic; vasotropic; antidiabetic; anti-HIV;  
KW ophthalmological; antirheumatic; antiarthritic; antipsoriatic;  
KW antianaemic; neuroprotective; nootropic; cerebroprotective;  
KW antibacterial; virucide; protozoacide; fungicide; antiinflammatory;  
KW cardiant; immunosuppressive; tumour metastasis; inflammatory disease;  
KW allograft rejection; cell migration; angiogenesis; basement membrane;  
KW extracellular matrix; cancer; ischaemia; diabetic retinopathy;  
KW macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;  
KW sickle cell anaemia; Alzheimer's disease; muscular dystrophy;  
KW neurodegenerative disease; vascular disease; cardiovascular disease;  
KW cystic fibrosis; stroke; gene therapy; zinc finger protein; ZFP.  
XX  
OS Homo sapiens.  
XX  
PN WO200244353-A2.  
XX  
PD 06-JUN-2002.  
XX  
PF 30-NOV-2001; 2001WO-US44798.  
XX  
PR 30-NOV-2000; 2000US-250690P.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Wolffe AP, Qi H;  
XX  
DR WPI; 2002-527708/56.  
XX  
PT New heparanase polynucleotide, useful for controlling disease states  
PT such as tumour metastasis, inflammatory diseases and allograft rejection  
PT  
XX  
PS Example 3; Page 50; 72pp; English.  
XX  
CC The invention relates to novel heparanase sequences, particularly novel  
CC sequences from the regulatory regions upstream and downstream of the  
CC coding region. The activity of polynucleotides of the invention may be  
CC described as, cytostatic, vasotropic, antidiabetic, anti-HIV,  
CC ophthalmological, antirheumatic, antiarthritic, antipsoriatic,  
CC antianaemic, neuroprotective, nootropic, cerebroprotective,

CC antibacterial, virucide, protozoacide, fungicide, antiinflammatory,  
CC cardiant and immunosuppressive. Modulating expression of heparanase gene  
CC using constructs of the invention is useful for facilitating targeted  
CC control of disease states such as tumour metastasis, inflammatory  
CC diseases, allograft rejection, and for inhibiting processes such as cell  
CC migration, angiogenesis, and degradation of the basement membrane and/or  
CC extracellular matrix. Heparanase-targeted DNA binding domains modulates  
CC gene expression, and are useful for therapeutic or prophylactic  
CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular  
CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell  
CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative  
CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,  
CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs  
CC of the invention may also be useful in gene therapy. The current sequence  
CC represents a finger of a six-finger ZFP (zinc finger protein), which  
CC has a target site in the human heparanase gene.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 34  
ABP48205  
ID ABP48205 standard; Peptide; 7 AA.  
XX AC ABP48205;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:229.  
XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 36; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc

CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 35  
ABP48208  
ID ABP48208 standard; Peptide; 7 AA.  
XX AC ABP48208;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:230.  
XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 36; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the

CC subsite. (I) is useful in studying gene function, and for human  
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
 CC therapeutic methods to modulate the expression of a target region within  
 CC a subject, in diagnostic methods for sequence specific detection of  
 CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity  
 CC and specificity for their target sequences, as well as enhanced  
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
 CC represent DNA target sequences and zinc finger peptides which are given  
 CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 36  
 ABP48220  
 ID ABP48220 standard; Peptide; 7 AA.

XX AC ABP48220;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:234.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering,  
 PT comprises first, second and third zinc fingers, ordered from N- to  
 PT C-terminus -

XX Example 1; Page 36; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
 CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
 CC that it binds to the S2 target subsite, and selecting the F3 zinc  
 CC finger such that it binds to the S3 target subsite, thus designing (I)  
 CC that binds to a target site. (I) is useful for recognition of triplet  
 CC target subsites having the nucleotide G in the 5'-most position of the  
 CC subsite. (I) is useful in studying gene function, and for human  
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
 CC therapeutic methods to modulate the expression of a target region within

CC a subject, in diagnostic methods for sequence specific detection of  
 CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity  
 CC and specificity for their target sequences, as well as enhanced  
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
 CC represent DNA target sequences and zinc finger peptides which are given  
 CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 37  
 ABP48232  
 ID ABP48232 standard; Peptide; 7 AA.

XX AC ABP48232;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:238.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering,  
 PT comprises first, second and third zinc fingers, ordered from N- to  
 PT C-terminus -

XX Example 1; Page 36; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
 CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
 CC that it binds to the S2 target subsite, and selecting the F3 zinc  
 CC finger such that it binds to the S3 target subsite, thus designing (I)  
 CC that binds to a target site. (I) is useful for recognition of triplet  
 CC target subsites having the nucleotide G in the 5'-most position of the  
 CC subsite. (I) is useful in studying gene function, and for human  
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
 CC therapeutic methods to modulate the expression of a target region within  
 CC a subject, in diagnostic methods for sequence specific detection of  
 CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity

CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 38  
ABP48235  
ID ABP48235 standard; Peptide; 7 AA.

XX ABP48235;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:239.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

PS Example 1; Page 36; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given

CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 39  
ABP48250  
ID ABP48250 standard; Peptide; 7 AA.

XX ABP48250;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:244.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

PS Example 1; Page 36; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;





Db 1 RSDHLNR 7

RESULT 42

ABP48485

ID ABP48485 standard; Peptide; 7 AA.

AC ABP48485;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:426.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to C-terminus

PS Example 1; Page 38; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M). (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subsites having the nucleotide G in the 5'-most position of the subsite. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLNR 7  
Db 1 RSDHLNR 7

RESULT 43

ABP48487

ID ABP48487 standard; Peptide; 7 AA.

AC ABP48487;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:428.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to C-terminus

PS Example 1; Page 38; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M). (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subsites having the nucleotide G in the 5'-most position of the subsite. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLNR 7  
Db 1 RSDHLNR 7

RESULT 44  
ABP48515



ID ABP48515 standard; Peptide; 7 AA.  
XX  
AC ABP48515;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:434.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 39; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such that  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
QY  
Db 1 RSDHLSR 7  
1 RSDHLSR 7

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 45  
ID ABP48623 standard; Peptide; 7 AA.  
XX  
AC ABP48623;

XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1089.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 41; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such that  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
QY  
Db 1 RSDHLSR 7  
1 RSDHLSR 7

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 46  
ID ABP48626 standard; Peptide; 7 AA.  
XX  
AC ABP48626;  
XX  
DT 28-AUG-2002 (first entry)  
XX

DE	Zinc finger protein related peptide motif SEQ ID NO:1090.
XX	
KW	Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX	
OS	Homo sapiens.
XX	Synthetic.
PN	WO200242459-A2.
XX	
PD	30-MAY-2002.
XX	
PF	20-NOV-2001; 2001WO-US43438.
XX	
PR	20-NOV-2000; 2000US-0716637.
XX	
PA	(SANG-) SANGAMO BIOSCIENCES INC.
PI	
LI	Liu Q;
DR	WPI; 2002-500284/53.
XX	
PT	New zinc finger protein that binds to target site, useful in studying
PT	gene function and for human therapeutics and plant engineering,
PT	comprises first, second and third zinc fingers, ordered from N- to
PT	C-terminus -
PS	
XX	Example 1; Page 41; 81pp; English.
CC	The present invention describes a zinc finger protein (I) that binds to
CC	a target site, comprising a first (F1), a second (F2), and a third (F3)
CC	zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC	target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC	and a third (S3) target subsite. Also described are: (1) a polypeptide
CC	(II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC	(3) designing (M) (I) involves selecting the F1 zinc finger such that
CC	it binds to the S1 target subsite, selecting the F2 zinc finger such
CC	that it binds to the S2 target subsite, and selecting the F3 zinc
CC	finger such that it binds to the S3 target subsite, thus designing (I)
CC	that binds to a target site. (I) is useful for recognition of triplet
CC	target subsites having the nucleotide G in the 5'-most position of the
CC	subsite. (I) is useful in studying gene function, and for human
CC	therapeutics and plant engineering. (I), (II) or (III) is useful in
CC	diagnostic methods to modulate the expression of a target region within
CC	a subject, in diagnostic methods for sequence specific detection of
CC	target nucleic acid in a sample, and in assays to determine affinity
CC	phenotype and function of gene expression. (I) has improved affinity
CC	and specificity for their target sequences, as well as enhanced
CC	biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC	represent DNA target sequences and zinc finger peptides which are given
CC	in the exemplification of the present invention.
XX	
SQ	Sequence    7 AA;
QY	
Db	
	Query Match                      100.0%; Score 36; DB 23; Length 7;
	Best Local Similarity         100.0%; Pred. No. 9.3e+05;
	Matches         7; Conservative         0; Mismatches         0; Indels         0; Gaps         0;
	1 RSDHLNR         7
	1 RSDHLNR         7
RESULT 47	
ID	ABP48629 standard; Peptide; 7 AA.
AC	ABP48629;
DT	28-AUG-2002 (first entry)
DE	Zinc finger protein related peptide motif SEQ ID NO:1091.
XX	
DE	Zinc finger protein; ZFP; DNA binding protein; zinc finger.
KW	

```

XX Homo sapiens.
OS Synthetic.
XX WO200242459-A2.
PN 30-MAY-2002.
XX 20-NOV-2001; 2001WO-US43438.
PF 20-NOV-2000; 2000US-0716637.
PR XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
PI Liu Q;
XX WPI; 2002-500284/53.
DR
XX New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
PS Example 1; Page 41; 81pp; English.
PX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target subsite. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target subsite, selecting the F2 zinc finger such
CC that it binds to the S2 target subsite, and selecting the F3 zinc
CC finger such that it binds to the S3 target subsite, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target subsites having the nucleotide G in the 5'-most position of the
CC subsite. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
CX
SQ Sequence 7 AA;
Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0
CY 1 RSDHLSR 7
|||
1 RSDHLSR 7
Db
RESULT 48
ABP48634
ID ABP48634 standard; Peptide; 7 AA.
AC ABP48634;
XX
DT 28-AUG-2002 (first entry)
DE Zinc finger protein related peptide motif SEQ ID NO:888.
XX
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
OS Homo sapiens.
OS Synthetic.

```

XX WO200242459-A2.  
XX 30-MAY-2002.  
XX PD  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX WPI; 2002-500284/53.  
XX DR  
XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX PS Example 1; Page 41; 81pp; English.  
XX  
XX CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX SQ Sequence 7 AA;  
QY  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
RESULT 49  
ID ABP48638 standard; Peptide; 7 AA.  
XX AC ABP48638;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:1094.  
XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PF

PD 30-MAY-2002.  
XX 20-NOV-2001; 2001WO-US43438.  
XX PF 20-NOV-2000; 2000US-0716637.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX WPI; 2002-500284/53.  
XX DR  
XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX PS Example 1; Page 41; 81pp; English.  
XX  
XX CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX SQ Sequence 7 AA;  
QY  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
RESULT 50  
ID ABP48770 standard; Peptide; 7 AA.  
XX AC ABP48770;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:1138.  
XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PF 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.  
PR  
XX  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX  
PI Liu Q;  
PI  
XX  
DR WPI; 2002-500284/53.  
XX  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 42; 81pp; English.  
PS

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

[illegible]

QY	1	RSDHLSR	7
Db	1	RSDHLSR	7

## RESULT 51

ID ABP48773 standard; Peptide; 7 AA.

AC ABP48773;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related motif SEQ ID NO:1139.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

05 Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC  
XX  
PI Liu Q;  
XX  
DR WPI, 2002-500284/53.

Liu Q;  
WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

PS Example 1; Page 42; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

Sequence 7 AA;

```

Query Match      100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0

```

```
QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

## RESULT 52

ID ABP48890 standard; peptide; 7 AA.

AC ABP48890;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1178.

**KW** Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN W0200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;



XX WPI; 2002-500284/53.  
DR  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus  
XX  
XX Example 1; Page 43; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
OY  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Db 1 RSDHLSR 7  
1 RSDHLSR 7

RESULT 53  
ID ABP48893 standard; Peptide; 7 AA.  
XX  
AC ABP48893;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE zinc finger protein related peptide motif SEQ ID NO:1179.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus  
XX  
XX Example 1; Page 43; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
OY  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Db 1 RSDHLSR 7  
1 RSDHLSR 7

RESULT 54  
ID ABP48953 standard; Peptide; 7 AA.  
XX  
AC ABP48953;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE zinc finger protein related peptide motif SEQ ID NO:1199.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to

PT C-terminus -  
XX  
PS Example 1; Page 44; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
OY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
XX  
RESULT 55  
ABP48973  
ID ABP48973 standard; Peptide; 7 AA.  
XX  
AC ABP48973;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1001.  
XX  
KW Zinc finger protein; ZFP, DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 44; 81pp; English.

XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
OY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
XX  
RESULT 56  
ABP48977  
ID ABP48977 standard; Peptide; 7 AA.  
XX  
AC ABP48977;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1207.  
XX  
KW Zinc finger protein; ZFP, DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 44; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)



CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutic methods and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 57

ABP49013 ID ABP49013 standard; Peptide; 7 AA.

XX AC ABP49013;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1219.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX PS Example 1; Page 44; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide

CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutic methods and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

CC Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 58

ABP49016 ID ABP49016 standard; Peptide; 7 AA.

XX AC ABP49016;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:1220.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX PS Example 1; Page 44; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such

CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 59

ABP49028  
ID ABP49028 standard; Peptide; 7 AA.

XX AC ABP49028;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:1224.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX CS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 45; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
XX CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
XX CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
XX CC that it binds to the S2 target subsite, and selecting the F3 zinc  
XX CC finger such that it binds to the S3 target subsite, thus designing (I)  
XX CC that binds to a target site. (I) is useful for recognition of triplet

CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 60

ABP49031  
ID ABP49031 standard; Peptide; 7 AA.

XX AC ABP49031;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:1225.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX CS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 45; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
XX CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
XX CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
XX CC that it binds to the S2 target subsite, and selecting the F3 zinc  
XX CC finger such that it binds to the S3 target subsite, thus designing (I)  
XX CC that binds to a target site. (I) is useful for recognition of triplet  
XX CC target subsites having the nucleotide G in the 5'-most position of the  
XX CC subsite. (I) is useful in studying gene function, and for human  
XX CC therapeutics and plant engineering. (I), (II) or (III) is useful in

CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match

Best Local Similarity 100.0%; Score 36; DB 23; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 61

ABP49058 ID ABP49058 standard; Peptide; 7 AA.

XX AC ABP49058;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:1234.

XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 45; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsequence. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsequence, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsequence, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsequences having the nucleotide G in the 5'-most position of the  
CC subsequence. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the

CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match

Best Local Similarity 100.0%; Score 36; DB 23; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 62

ABP49080 ID ABP49080 standard; Peptide; 7 AA.

XX AC ABP49080;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:832.

XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 45; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsequence. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsequence, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsequence, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsequences having the nucleotide G in the 5'-most position of the  
CC subsequence. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230

CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 63  
ABP49104  
ID ABP49104 standard; Peptide; 7 AA.  
XX  
AC ABP49104;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:840.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 45; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX

SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 64  
ABP49136  
ID ABP49136 standard; Peptide; 7 AA.  
XX  
AC ABP49136;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1260.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 46; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;



Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
1 RSDHLSR 7

RESULT 65

ABP49169  
ID ABP49169 standard; Peptide; 7 AA.

XX AC ABP49169;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:1529.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX PS Example 1; Page 47; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsequence. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsequence, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsequence, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sites having the nucleotide G in the 5'-most position of the  
CC subsequence. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
1 RSDHLSR 7

RESULT 66

ABP49172  
ID ABP49172 standard; Peptide; 7 AA.

XX AC ABP49172;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:1530.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX PS Example 1; Page 47; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsequence. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsequence, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsequence, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsequence, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sites having the nucleotide G in the 5'-most position of the  
CC subsequence. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
1 RSDHLSR 7

RESULT 67  
ABP49205  
ID ABP49205 standard; Peptide; 7 AA.  
XX  
AC ABP49205;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1541.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 47; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (I); (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | | | |  
Db 1 RSDHLSR 7

RESULT 68

ABP49220  
ID ABP49220 standard; Peptide; 7 AA.  
XX  
AC ABP49220;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1546.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 47; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (I); (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | | | |  
Db 1 RSDHLSR 7

RESULT 69  
ABP49252  
ID ABP49252 standard; Peptide; 7 AA.  
XX



AC ABP49252;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1471.  
XX  
KN Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR MPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Claim 1; Page 48; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such that  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
QY  
Db 1 RSDHLSR 7  
1 RSDHLSR 7  
1 RSDHLSR 7  
1 RSDHLSR 7  
RESULT 70  
ID ABP49277 standard; Peptide; 7 AA.  
XX  
AC ABP49277;  
XX  
DT 28-AUG-2002 (first entry)  
XX

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1565.  
XX  
KN Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR MPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 48; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such that  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
QY  
Db 1 RSDHLSR 7  
1 RSDHLSR 7  
1 RSDHLSR 7  
1 RSDHLSR 7  
RESULT 71  
ID ABP49307 standard; Peptide; 7 AA.  
XX  
AC ABP49307;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1575.  
XX

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 48; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 72  
ABP49391  
ID ABP49391 standard; Peptide; 7 AA.  
XX  
AC ABP49391;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1603.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.

OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 49; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 73  
ABP49416  
ID ABP49416 standard; Peptide; 7 AA.  
XX  
AC ABP49416;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1714.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.

XX 30-MAY-2002.  
XX 20-NOV-2001; 2001WO-US43438.  
XX 20-NOV-2000; 2000US-0716637.  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX Liu Q;  
XX WPI; 2002-500284/53.  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
XX gene function and for human therapeutics and plant engineering,  
XX comprises first, second and third zinc fingers, ordered from N- to  
XX C-terminus -  
XX  
XX Example 1; Page 50; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
XX a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX and a third (S3) target sub-site. Also described are: (I) a polypeptide  
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such  
XX that it binds to the S2 target sub-site, and selecting the F3 zinc  
XX finger such that it binds to the S3 target sub-site, thus designing (I)  
XX that binds to a target site. (I) is useful for recognition of triplet  
XX target sub-sites having the nucleotide G in the 5'-most position of the  
XX sub-site. (I) is useful in studying gene function, and for human  
XX therapeutics and plant engineering. (I), (II) or (III) is useful in  
XX a subject, in diagnostic methods for sequence specific detection of  
XX target nucleic acid in a sample, and in assays to determine the  
XX phenotype and function of gene expression. (I) has improved affinity  
XX and specificity for their target sequences, as well as enhanced  
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
XX represent DNA target sequences and zinc finger peptides which are given  
XX in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 74  
ID ABP49419 standard; Peptide; 7 AA.  
XX  
XX ABP49419;  
XX  
XX 28-AUG-2002 (first entry)  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:1715.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
XX Homo sapiens.  
XX Synthetic.  
XX WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX

PF 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX Liu Q;  
XX WPI; 2002-500284/53.  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
XX gene function and for human therapeutics and plant engineering,  
XX comprises first, second and third zinc fingers, ordered from N- to  
XX C-terminus -  
XX  
XX Example 1; Page 50; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
XX a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX and a third (S3) target sub-site. Also described are: (I) a polypeptide  
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such  
XX that it binds to the S2 target sub-site, and selecting the F3 zinc  
XX finger such that it binds to the S3 target sub-site, thus designing (I)  
XX that binds to a target site. (I) is useful for recognition of triplet  
XX target sub-sites having the nucleotide G in the 5'-most position of the  
XX sub-site. (I) is useful in studying gene function, and for human  
XX therapeutics and plant engineering. (I), (II) or (III) is useful in  
XX a subject, in diagnostic methods for sequence specific detection of  
XX target nucleic acid in a sample, and in assays to determine the  
XX phenotype and function of gene expression. (I) has improved affinity  
XX and specificity for their target sequences, as well as enhanced  
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
XX represent DNA target sequences and zinc finger peptides which are given  
XX in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 75  
ID ABP49422 standard; Peptide; 7 AA.  
XX  
XX ABP49422;  
XX  
XX 28-AUG-2002 (first entry)  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:1716.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
XX Homo sapiens.  
XX Synthetic.  
XX WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX

(SANG-) SANGAMO BIOSCIENCES INC.

Liu Q;

WPI; 2002-500284/53.

New zinc finger protein that binds to target site, useful in studying gene function and for human therapeutics and plant engineering, comprises first, second and third zinc fingers, ordered from N- to C-terminus -

Example 1; Page 50; 81bp; English.

The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (I) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, thus designing (I) target subsites having the nucleotide G in the 5'-most position of the subsite. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity and specificity for their target sequences, as well as enhanced biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc finger peptides which are given in the exemplification of the present invention.

Sequence    7 AA;  
SQ  
  
Query Match                 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity      100.0%; Pred. No. 9.3e+05;  
Matches          7; Conservative      0; Mismatches      0; Indels      0; Gaps      0;  
  
OY                         1 RSDHLSR 7  
                         | |||||  
Db                         1 RSDHLSR 7  
  
RESULT 76  
ABP49425  
ID    ABP49425 standard; Peptide; 7 AA.  
XX  
AC    ABP49425;  
XX  
DT    28-AUG-2002 (first entry)  
XX  
DE    Zinc finger protein related peptide motif SEQ ID NO:1717.  
XX  
KM    Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
OS    Homo sapiens.  
XS    Synthetic.  
PN    WO200242459-A2.  
PD    30-MAY-2002.  
PF    20-NOV-2001; 2001WO-US43438.  
PR    20-NOV-2000; 2000US-0716637.  
PA    (SANG-) SANGAMO BIOSCIENCES INC.  
XX

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PI      Liu Q;
XX      WPI; 2002-500284/53.
DR
XX      New zinc finger protein that binds to target site, useful in studying
PT      gene function and for human therapeutics and plant engineering,
PT      comprises first, second and third zinc fingers, ordered from N- to
PT      C-terminus -
XX
PS      Example 1; Page 50; 81pp; English.
XX
XX      The present invention describes a zinc finger protein (I) that binds to
CC      a target site, comprising a first (F1), a second (F2), and a third (F3)
CC      zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC      target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC      and a third (S3) target subsite. Also described are: (1) a polypeptide
CC      (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC      (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC      it binds to the S1 target subsite, selecting the F2 zinc finger such
CC      that it binds to the S2 target subsite, and selecting the F3 zinc
CC      finger such that it binds to the S3 target subsite, thus designing (I)
CC      that binds to a target site. (I) is useful for recognition of triplet
CC      target subsites having the nucleotide G in the 5'-most position of the
CC      subsite. (I) is useful in studying gene function, and for human
CC      therapeutics and plant engineering. (I), (II) or (III) is useful in
CC      therapeutic methods to modulate the expression of a target region within
CC      a subject, in diagnostic methods for sequence specific detection of
CC      target nucleic acid in a sample, and in assays to determined the
CC      phenotype and function of gene expression. (I) has improved affinity
CC      and specificity for their target sequences, as well as enhanced
CC      biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC      represent DNA target sequences and zinc finger peptides which are given
CC      in the exemplification of the present invention.
XX
SQ      Sequence 7 AA;
XX
XX      Query Match
XX      Best Local Similarity 100.0%; Score 36; DB 23; Length 7;
XX      Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY      1 RSDHLSR 7
XX      |||||
XX      1 RSDHLSR 7
DB
XX
RESULT 77
ABP49428
ID      ABP49428 standard; Peptide; 7 AA.
XX
AC      ABP49428;
XX
DT      28-AUG-2002 (first entry)
XX
DE      Zinc finger protein related peptide motif SEQ ID NO:1718.
XX
KM      Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
OS      Homo sapiens.
OS      Synthetic.
XX
PN      WO200242459-A2.
XX
PD      30-MAY-2002.
XX
PF      20-NOV-2001; 2001WO-US43438.
XX
PR      20-NOV-2000; 2000US-0716637.
XX
PA      (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI      Liu Q;
XX
XX      WPI; 2002-500284/53.
DR

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XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX Example 1; Page 50; 81pp; English.  
PS  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 78  
ABP49517 standard; Peptide; 7 AA.  
XX  
AC ABP49517;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1951.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT

PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX Example 1; Page 51; 81pp; English.  
PS  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 79  
ABP49520 standard; Peptide; 7 AA.  
XX  
AC ABP49520;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1952.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX



PS Example 1; Page 51; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 80  
ABP49579  
ID ABP49579 standard; Peptide; 7 AA.  
XX  
AC ABP49579;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1870.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 51; 81pp; English.  
XX The present invention describes a zinc finger protein (I) that binds to

CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
  
RESULT 81  
ABP49585  
ID ABP49585 standard; Peptide; 7 AA.  
XX  
AC ABP49585;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1872.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 52; 81pp; English.  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),

CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
|||  
1 RSDHLSR 7

Db 1 RSDHLSR 7

#### RESULT 82

ABP49595  
ID ABP49595 standard; Peptide; 7 AA.

XX AC ABP49595;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:1977.

XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that

CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
|||  
1 RSDHLSR 7

Db 1 RSDHLSR 7

#### RESULT 83

ABP49603  
ID ABP49603 standard; Peptide; 7 AA.

XX AC ABP49603;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:1878.

XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)

CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined affinity  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 84  
ABP49612  
ID ABP49612 standard; Peptide; 7 AA.  
XX  
AC ABP49612;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1881.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 52; 81bp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human

CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 85  
ABP49615  
ID ABP49615 standard; Peptide; 7 AA.  
XX  
AC ABP49615;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:1882.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 52; 81bp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of

CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity  
 CC and specificity for their target sequences, as well as enhanced  
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
 CC represent DNA target sequences and zinc finger peptides which are given  
 CC in the exemplification of the present invention.

XX  
 SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 86  
 ABP49618  
 ID ABP49618 standard; Peptide; 7 AA.  
 XX  
 AC ABP49618;  
 XX  
 DT 28-AUG-2002 (first entry)  
 XX  
 DE Zinc finger protein related peptide motif SEQ ID NO:1883.  
 XX  
 KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200242459-A2.  
 XX  
 PD 30-MAY-2002.  
 XX  
 PF 20-NOV-2001; 2001WO-US43438.  
 XX  
 PR 20-NOV-2000; 2000US-0716637.  
 XX  
 PA (SANG-) SANGAMO BIOSCIENCES INC.  
 XX  
 PI Liu Q;  
 XX  
 DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering,  
 PT comprises first, second and third zinc fingers, ordered from N- to  
 PT C-terminus -  
 XX  
 PS Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target site. Also described are: (1) a polypeptide  
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
 CC it binds to the S1 target site, selecting the F2 zinc finger such  
 CC that it binds to the S2 target site, and selecting the F3 zinc  
 CC finger such that it binds to the S3 target site, thus designing (I)  
 CC that binds to a target site. (I) is useful for recognition of triplet  
 CC target sites having the nucleotide G in the 5'-most position of the  
 CC subunit. (I) is useful in studying gene function, and for human  
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
 CC therapeutic methods to modulate the expression of a target region within  
 CC a subject, in diagnostic methods for sequence specific detection of  
 CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity  
 CC and specificity for their target sequences, as well as enhanced

CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
 CC represent DNA target sequences and zinc finger peptides which are given  
 CC in the exemplification of the present invention.

XX  
 SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 87  
 ABP49621  
 ID ABP49621 standard; Peptide; 7 AA.  
 XX  
 AC ABP49621;  
 XX  
 DT 28-AUG-2002 (first entry)  
 XX  
 DE Zinc finger protein related peptide motif SEQ ID NO:1884.  
 XX  
 KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200242459-A2.  
 XX  
 PD 30-MAY-2002.  
 XX  
 PF 20-NOV-2001; 2001WO-US43438.  
 XX  
 PR 20-NOV-2000; 2000US-0716637.  
 XX  
 PA (SANG-) SANGAMO BIOSCIENCES INC.  
 XX  
 PI Liu Q;  
 XX  
 DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering,  
 PT comprises first, second and third zinc fingers, ordered from N- to  
 PT C-terminus -  
 XX  
 PS Example 1; Page 52; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target site. Also described are: (1) a polypeptide  
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
 CC it binds to the S1 target site, selecting the F2 zinc finger such  
 CC that it binds to the S2 target site, and selecting the F3 zinc  
 CC finger such that it binds to the S3 target site, thus designing (I)  
 CC that binds to a target site. (I) is useful for recognition of triplet  
 CC target sites having the nucleotide G in the 5'-most position of the  
 CC subunit. (I) is useful in studying gene function, and for human  
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
 CC therapeutic methods to modulate the expression of a target region within  
 CC a subject, in diagnostic methods for sequence specific detection of  
 CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity  
 CC and specificity for their target sequences, as well as enhanced  
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
 CC represent DNA target sequences and zinc finger peptides which are given  
 CC in the exemplification of the present invention.



XX Sequence 7 AA;  
SQ Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 88  
ABP49904 ID ABP49904 standard; Peptide; 7 AA.  
AC ABP49904;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3580.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX  
PS Example 1; Page 55; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX

Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 89  
ABP49907 ID ABP49907 standard; Peptide; 7 AA.  
AC ABP49907;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3581.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX  
PS Example 1; Page 55; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX

Sequence 7 AA;  
SQ Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 90  
ABP49988  
ID ABP49988 standard; Peptide; 7 AA.  
XX  
AC ABP49988;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3608.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 56; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||

Db 1 RSDHLSR 7

RESULT 91  
ABP50011  
ID ABP50011 standard; Peptide; 7 AA.  
XX  
AC ABP50011;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3116.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 56; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
|||||

RESULT 92  
ABP50014  
ID ABP50014 standard; Peptide; 7 AA.  
XX  
AC ABP50014;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3117.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
XX Synthetic.  
XX WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX WPI; 2002-500284/53.  
XX  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 56; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC a target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 93  
ABP50016  
ID ABP50016 standard; Peptide; 7 AA.

XX  
AC ABP50016;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:2618.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
XX Synthetic.  
XX WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX WPI; 2002-500284/53.  
XX  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 56; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC a target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 94  
ABP50019  
ID ABP50019 standard; Peptide; 7 AA.

DT 28-AUG-2002 (first entry)  
XX Zinc finger protein related peptide motif SEQ ID NO:2619.  
DE Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
KM  
OS Homo sapiens.  
OS Synthetic.  
XX  
FN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
PI WPI; 2002-500284/53.  
DR  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 56; 81pp; English.  
PS  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
QY  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
PI WPI; 2002-500284/53.  
DR  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 56; 81pp; English.  
PS  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
QY  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 95  
ID ABP50033 standard; Peptide; 7 AA.  
XX  
AC ABP50033;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3623.

RESULT 96  
ID ABP50036 standard; Peptide; 7 AA.  
XX  
AC ABP50036;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3624.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX

OS Homo sapiens.  
XX Synthetic.  
XX WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX WPI; 2002-500284/53.  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 56; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
      |||||  
      1 RSDHLSR 7  
Db

RESULT 97  
ABP50039  
ID ABP50039 standard; Peptide; 7 AA.  
XX  
XX ABP50039;  
AC  
XX 28-AUG-2002 (first entry)  
DT  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3625.  
DE  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KM  
XX  
XX Homo sapiens.  
OS  
OS Synthetic.  
XX

PN WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX WPI; 2002-500284/53.  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 56; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
      |||||  
      1 RSDHLSR 7  
Db

RESULT 98  
ABP50072  
ID ABP50072 standard; Peptide; 7 AA.  
XX  
XX ABP50072;  
AC  
XX 28-AUG-2002 (first entry)  
DT  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3636.  
DE  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KM  
XX  
XX Homo sapiens.  
OS  
OS Synthetic.  
XX  
XX WO200242459-A2.  
PN  
XX 30-MAY-2002.  
PD



XX 20-NOV-2001; 2001WO-US43438.  
PF  
XX  
XX 20-NOV-2000; 2000US-0716637.  
PR  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
PA  
XX  
XX Liu Q;  
PI  
XX  
XX WPI; 2002-500284/53.  
DR  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX  
XX Example 1; Page 56; 81pp; English.  
PS  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, and selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 99  
ABP50075  
ID ABP50075 standard; Peptide; 7 AA.  
XX  
XX ABP50075;  
AC  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3637.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KW  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
OS  
XX  
XX WO200242459-A2.  
PN  
XX  
XX 30-MAY-2002.  
PD  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
PF  
XX

PR 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
PA  
XX  
XX Liu Q;  
PI  
XX  
XX WPI; 2002-500284/53.  
DR  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX  
XX Example 1; Page 56; 81pp; English.  
PS  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, and selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 100  
ABP50108  
ID ABP50108 standard; Peptide; 7 AA.  
XX  
XX ABP50108;  
AC  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3648.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KW  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
OS  
XX  
XX WO200242459-A2.  
PN  
XX  
XX 30-MAY-2002.  
PD  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
PF  
XX  
XX 20-NOV-2000; 2000US-0716637.  
PR  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
PA



XX Liu Q;  
PI  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 56; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
|||  
|||  
Db 1 RSDHLSR 7

RESULT 101  
ABP50111  
ID ABP50111 standard; Peptide; 7 AA.  
XX  
AC ABP50111;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3649.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX

DR WPI; 2002-500284/53.  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 56; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
|||  
|||  
Db 1 RSDHLSR 7

RESULT 102  
ABP50128  
ID ABP50128 standard; Peptide; 7 AA.  
XX  
AC ABP50128;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3155.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying

PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
PS Example 1; Page 56; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
QY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Db 1 RSDHLSR 7  
1 RSDHLSR 7  
RESULT 103  
ABP50129  
ID ABP50129 standard; Peptide; 7 AA.  
XX AC ABP50129;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:3655.  
XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering, to  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX  
PS Example 1; Page 56; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
QY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Db 1 RSDHLSR 7  
1 RSDHLSR 7  
RESULT 104  
ABP50131  
ID ABP50131 standard; Peptide; 7 AA.  
XX AC ABP50131;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:3156.  
XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering, to  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
PS Example 1; Page 56; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match Best Local Similarity 100.0%; Score 36; DB 23; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 105

ABP50132 ID ABP50132 standard; Peptide; 7 AA.

XX AC ABP50132;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:3656.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying

XX PS Example 1; Page 56; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the

CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match Best Local Similarity 100.0%; Score 36; DB 23; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 106

ABP50138 ID ABP50138 standard; Peptide; 7 AA.

XX AC ABP50138;

XX DT 28-AUG-2002 (first entry)

XX DE Zinc finger protein related peptide motif SEQ ID NO:3658.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

XX PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying

XX PS Example 1; Page 56; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3',-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and

CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 107

ABP50151  
ID ABP50151 standard; Peptide; 7 AA.

XX AC ABP50151;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:2663.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX PS Example 1; Page 57; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc

CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the.  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 108

ABP50180  
ID ABP50180 standard; Peptide; 7 AA.

XX AC ABP50180;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3672.

XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX OS Homo sapiens.

XX OS Synthetic.

PN WO200242459-A2.

XX PD 30-MAY-2002.

XX PF 20-NOV-2001; 2001WO-US43438.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Liu Q;

XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX PS Example 1; Page 57; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the



CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (II), (III) or (IV) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

Query Match	100.0%;	Score 36;	DB 23;	Length 7;
Best Local Similarity	100.0%;	Pred. No. 9.3e+05;		
Matches 7; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

```
QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

RESULT 109  
ABP50183  
ID ABP50183 standard; Peptide; 7 AA.

AC ABP50183;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3673.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN W0200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

PS Example 1; Page 57; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or, (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within

CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

```

Query Match      100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches      7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY	1	RSDHLSR	7
Db	1	RSDHLSR	7

RESULT 110  
ABP50285  
ID ABP50285 standard; Peptide; 7 AA.

AC ABP50285;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3707.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger-

Os Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

Liu Q; PI

DR WPI; 2002-500284/53.

PT C-terminus -

PS Example 1; Page 57; 81pp; English.

The present invention describes a zinc finger protein (I) that binds to a target site, comprising a first (F1), a second (F2), and a third (F3) zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the target site comprises, in 3'-5' direction, a first (S1), a second (S2), and a third (S3) target subsite. Also described are: (1) a polypeptide (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and (3) designing (M) (I) involves selecting the F1 zinc finger such that it binds to the S1 target subsite, selecting the F2 zinc finger such that it binds to the S2 target subsite, and selecting the F3 zinc finger such that it binds to the S3 target subsite, thus designing (I) that binds to a target site. (I) is useful for recognition of triplet target subsites having the nucleotide G in the 5'-most position of the subsite. (I) is useful in studying gene function, and for human therapeutics and plant engineering. (I), (II) or (III) is useful in therapeutic methods to modulate the expression of a target region within a subject, in diagnostic methods for sequence specific detection of target nucleic acid in a sample, and in assays to determine the phenotype and function of gene expression. (I) has improved affinity



CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;  
SQ Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 111  
ABP50288  
ID ABP50288 standard; Peptide; 7 AA.

AC ABP50288;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3708.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.  
OS Synthetic.

XX WO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 57; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC a target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given

CC in the exemplification of the present invention.

XX Sequence 7 AA;  
SQ Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 112  
ABP50385  
ID ABP50385 standard; Peptide; 7 AA.

AC ABP50385;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:2741.  
XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.  
OS Synthetic.

XX WO200242459-A2.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US43438.

XX 20-NOV-2000; 2000US-0716637.

XX (SANG-) SANGAMO BIOSCIENCES INC.

XX Liu Q;

XX WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 58; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC a target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 Db 1 RSDHLSR 7

RESULT 113  
 ABP50388  
 ID ABP50388 standard; Peptide; 7 AA.

AC ABP50388;  
 XX 28-AUG-2002 (first entry)  
 DT Zinc finger protein related peptide motif SEQ ID NO:2742.  
 DE Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
 XX Homo sapiens.  
 OS Synthetic.  
 OS WO200242459-A2.  
 PN 30-MAY-2002.  
 PD 20-NOV-2001; 2001WO-US43438.  
 PF 20-NOV-2000; 2000US-0716637.  
 PR (SANG-) SANGAMO BIOSCIENCES INC.  
 PA (SANG-) SANGAMO BIOSCIENCES INC.  
 XX Liu Q;  
 PI WPI; 2002-500284/53.  
 DR

XX New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering,  
 PT comprises first, second and third zinc fingers, ordered from N- to  
 PT C-terminus -  
 XX Example 1; Page 58; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target subsequence. Also described are: (1) a polypeptide  
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
 CC it binds to the S1 target subsequence, selecting the F2 zinc finger such  
 CC that it binds to the S2 target subsequence, and selecting the F3 zinc  
 CC finger such that it binds to the S3 target subsequence, thus designing (I)  
 CC that binds to a target site. (I) is useful for recognition of triplet  
 CC target subsequences having the nucleotide G in the 5'-most position of the  
 CC subsequence. (I) is useful in studying gene function, and for human  
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
 CC diagnostic methods to modulate the expression of a target region within  
 CC a subject, in diagnostic methods for sequence specific detection of  
 CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity  
 CC and specificity for their target sequences, as well as enhanced  
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
 CC represent DNA target sequences and zinc finger peptides which are given  
 CC in the exemplification of the present invention.

Query Match 100.0%; Score 36; DB 23; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 Db 1 RSDHLSR 7

RESULT 114  
 ABP50526  
 ID ABP50526 standard; Peptide; 7 AA.

AC ABP50526;  
 XX 28-AUG-2002 (first entry)  
 DT Zinc finger protein related peptide motif SEQ ID NO:2788.  
 DE Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
 XX Homo sapiens.  
 OS Synthetic.  
 OS WO200242459-A2.  
 PN 30-MAY-2002.  
 PD 20-NOV-2001; 2001WO-US43438.  
 PF 20-NOV-2000; 2000US-0716637.  
 PR (SANG-) SANGAMO BIOSCIENCES INC.  
 PA (SANG-) SANGAMO BIOSCIENCES INC.  
 XX Liu Q;  
 PI WPI; 2002-500284/53.  
 DR

XX New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering,  
 PT comprises first, second and third zinc fingers, ordered from N- to  
 PT C-terminus -  
 XX Example 1; Page 59; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
 CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target subsequence. Also described are: (1) a polypeptide  
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
 CC it binds to the S1 target subsequence, selecting the F2 zinc finger such  
 CC that it binds to the S2 target subsequence, and selecting the F3 zinc  
 CC finger such that it binds to the S3 target subsequence, thus designing (I)  
 CC that binds to a target site. (I) is useful for recognition of triplet  
 CC target subsequences having the nucleotide G in the 5'-most position of the  
 CC subsequence. (I) is useful in studying gene function, and for human  
 CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
 CC diagnostic methods to modulate the expression of a target region within  
 CC a subject, in diagnostic methods for sequence specific detection of  
 CC target nucleic acid in a sample, and in assays to determine the  
 CC phenotype and function of gene expression. (I) has improved affinity  
 CC and specificity for their target sequences, as well as enhanced  
 CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
 CC represent DNA target sequences and zinc finger peptides which are given  
 CC in the exemplification of the present invention.

Query Match 100.0%; Score 36; DB 23; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7

Db 1 RSDHLSR 7

RESULT 115

ABP50564

ID ABP50564 standard; Peptide; 7 AA.

AC ABP50564;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3800.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus

PS Example 1; Page 59; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 116

ABP50570

ID ABP50570 standard; Peptide; 7 AA.

AC ABP50570;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3802.

KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus

PS Example 1; Page 59; 81pp; English.

CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 117  
ABP50573

```

ID ABP50573 standard; Peptide; 7 AA.
XX
AC ABP50573;
XX
DT 28-AUG-2002 (first entry)
XX
DE Zinc finger protein related peptide motif SEQ ID NO:3803.
XX
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN WO200242459-A2.
XX
PD 30-MAY-2002.
XX
PF 20-NOV-2001; 2001WO-US43438.
XX
PR 20-NOV-2000; 2000US-0716637.
XX
PA (SANG-) SANGAMO BIOSCIENCES INC.
XX
PI Liu Q;
XX
DR WPI; 2002-500284/53.
XX
PT New zinc finger protein that binds to target site, useful in studying
PT gene function and for human therapeutics and plant engineering,
PT comprises first, second and third zinc fingers, ordered from N- to
PT C-terminus -
XX
PS Example 1; Page 59; 81pp; English.
XX
XX
XX The present invention describes a zinc finger protein (I) that binds to
CC a target site, comprising a first (F1), a second (F2), and a third (F3)
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such
CC that it binds to the S2 target sub-site, and selecting the F3 zinc
CC finger such that it binds to the S3 target sub-site, thus designing (I)
CC that binds to a target site. (I) is useful for recognition of triplet
CC target sub-sites having the nucleotide G in the 5'-most position of the
CC sub-site. (I) is useful in studying gene function, and for human
CC therapeutics and plant engineering. (I), (II) or (III) is useful in
CC therapeutic methods to modulate the expression of a target region within
CC a subject, in diagnostic methods for sequence specific detection of
CC target nucleic acid in a sample, and in assays to determined the
CC phenotype and function of gene expression. (I) has improved affinity
CC and specificity for their target sequences, as well as enhanced
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
CC represent DNA target sequences and zinc finger peptides which are given
CC in the exemplification of the present invention.
XX
XX
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLRSR 7
   |||||
   1 RSDHLRSR 7

Db
1 RSDHLRSR 7

RESULT 118
ABP50606
ID ABP50606 standard; Peptide; 7 AA.
XX
AC ABP50606;

```

XX	28-AUG-2002	(first entry)	
DT			
XX	Zinc finger protein related peptide motif SEQ ID NO:3814.		
DE			
XX	Zinc finger protein; ZFP; DNA binding protein; zinc finger.		
KM			
XX	Homo sapiens.		
OS	Synthetic.		
XX			
PN	WO200242459-A2.		
XX			
PD	30-MAY-2002.		
XX			
PF	20-NOV-2001; 2001WO-US43438.		
XX			
PR	20-NOV-2000; 2000US-0716637.		
XX			
PA	(SANG-) SANGAMO BIOSCIENCES INC.		
XX			
PI	Lin Q;		
XX			
DR	WPI; 2002-500284/53.		
XX			
PT	New zinc finger protein that binds to target site, useful in studying		
PT	gene function and for human therapeutics and plant engineering,		
PT	comprises first, second and third zinc fingers, ordered from N- to		
PT	C-terminus		
XX			
PS	Example 1; Page 60; 81pp; English.		
XX			
CC	The present invention describes a zinc finger protein (I) that binds to		
CC	a target site, comprising a first (F1), a second (F2), and a third (F3)		
CC	zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the		
CC	target site comprises, in 3'-5' direction, a first (S1), a second (S2),		
CC	and a third (S3) target sub-site. Also described are: (1) a polypeptide		
CC	(II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and		
CC	(3) designing (M) (I) involves selecting the F1 zinc finger such that		
CC	it binds to the S1 target sub-site, selecting the F2 zinc finger such		
CC	that it binds to the S2 target sub-site, and selecting the F3 zinc		
CC	finger such that it binds to the S3 target sub-site, thus designing (I)		
CC	that binds to a target site. (I) is useful for recognition of triplet		
CC	target sub-sites having the nucleotide G in the 5'-most position of the		
CC	sub-site. (I) is useful in studying gene function, and for human		
CC	therapeutics and plant engineering. (I), (II) or (III) is useful in		
CC	therapeutic methods to modulate the expression of a target region within		
CC	a subject, in diagnostic methods for sequence specific detection of		
CC	target nucleic acid in a sample, and in assays to determine the		
CC	phenotype and function of gene expression. (I) has improved affinity		
CC	and specificity for their target sequences, as well as enhanced		
CC	biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230		
CC	represent DNA target sequences and zinc finger peptides which are given		
CC	in the exemplification of the present invention.		
XX			
SQ	Sequence 7 AA;		
QY	1 RSDHLSR 7		
DB	1 RSDHLSR 7		
XX			
XX			
AC	ABP50609;		
XX			
DT	28-AUG-2002 (first entry)		
XX			

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 119

ABP50609

ID ABP50609 standard; Peptide; 7 AA.

XX

AC ABP50609;

XX

DT 28-AUG-2002 (first entry)

XX



DE Zinc finger protein related peptide motif SEQ ID NO:3815.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KW  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
XX  
XX WO200242459-A2.  
XX  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX  
XX WPI; 2002-500284/53.  
XX  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 60; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 120  
ABP50612  
ID ABP50612 standard; Peptide; 7 AA.  
XX  
XX ABP50612;  
XX  
XX 28-AUG-2002 (first entry)  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3816.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KW

XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
XX  
XX WO200242459-A2.  
XX  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX  
XX WPI; 2002-500284/53.  
XX  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX  
XX Example 1; Page 60; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX  
SQ Sequence 7 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 121  
ABP50741  
ID ABP50741 standard; Peptide; 7 AA.  
XX  
XX ABP50741;  
XX  
XX 28-AUG-2002 (first entry)  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3859.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
XX Homo sapiens.  
OS  
OS Synthetic.



XX WO200242459-A2.  
PN  
XX 30-MAY-2002.  
PD  
XX 20-NOV-2001; 2001WO-US43438.  
PF  
XX 20-NOV-2000; 2000US-0716637.  
PR  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
PA  
XX Liu Q;  
PI  
XX WPI; 2002-500284/53.  
DR  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus  
XX  
XX Example 1; Page 60; 81pp; English.  
PS  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 122  
ABP50744  
ID ABP50744 standard; Peptide; 7 AA.  
XX  
XX ABP50744;  
AC  
XX 28-AUG-2002 (first entry)  
DT  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3860.  
DE  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KM  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
OS  
XX WO200242459-A2.  
PN  
XX

PD 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
PF  
XX 20-NOV-2000; 2000US-0716637.  
PR  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
PA  
XX Liu Q;  
PI  
XX WPI; 2002-500284/53.  
DR  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus  
XX  
XX Example 1; Page 60; 81pp; English.  
PS  
XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
SQ

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 123  
ABP50807  
ID ABP50807 standard; Peptide; 7 AA.  
XX  
XX ABP50807;  
AC  
XX 28-AUG-2002 (first entry)  
DT  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3881.  
DE  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
KM  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
OS  
XX WO200242459-A2.  
PN  
XX 30-MAY-2002.  
PD  
XX 20-NOV-2001; 2001WO-US43438.  
PF

XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX  
XX WPI; 2002-500284/53.  
XX  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
XX gene function and for human therapeutics and plant engineering,  
XX comprises first, second and third zinc fingers, ordered from N- to  
XX C-terminus -  
XX  
XX Example 1; Page 61; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
XX a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX and a third (S3) target sub-site. Also described are: (I) a polypeptide  
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such  
XX that it binds to the S2 target sub-site, and selecting the F3 zinc  
XX finger such that it binds to the S3 target sub-site, thus designing (I)  
XX that binds to a target site. (I) is useful for recognition of triplet  
XX target sub-sites having the nucleotide G in the 5'-most position of the  
XX sub-site. (I) is useful in studying gene function, and for human  
XX therapeutics and plant engineering. (I), (II) or (III) is useful in  
XX a subject, in diagnostic methods for sequence specific detection of  
XX target nucleic acid in a sample, and in assays to determined the  
XX phenotype and function of gene expression. (I) has improved affinity  
XX and specificity for their target sequences, as well as enhanced  
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
XX represent DNA target sequences and zinc finger peptides which are given  
XX in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
XX  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 124  
ABP50810  
ID ABP50810 standard; Peptide; 7 AA.  
XX  
XX ABP50810;  
XX  
XX 28-AUG-2002 (first entry)  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3882.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
XX Homo sapiens.  
XX Synthetic.  
XX  
XX WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX

PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX  
XX WPI; 2002-500284/53.  
XX  
XX  
XX New zinc finger protein that binds to target site, useful in studying  
XX gene function and for human therapeutics and plant engineering,  
XX comprises first, second and third zinc fingers, ordered from N- to  
XX C-terminus -  
XX  
XX Example 1; Page 61; 81pp; English.  
XX  
XX The present invention describes a zinc finger protein (I) that binds to  
XX a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX and a third (S3) target sub-site. Also described are: (I) a polypeptide  
XX (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX it binds to the S1 target sub-site, selecting the F2 zinc finger such  
XX that it binds to the S2 target sub-site, and selecting the F3 zinc  
XX finger such that it binds to the S3 target sub-site, thus designing (I)  
XX that binds to a target site. (I) is useful for recognition of triplet  
XX target sub-sites having the nucleotide G in the 5'-most position of the  
XX sub-site. (I) is useful in studying gene function, and for human  
XX therapeutics and plant engineering. (I), (II) or (III) is useful in  
XX a subject, in diagnostic methods for sequence specific detection of  
XX target nucleic acid in a sample, and in assays to determined the  
XX phenotype and function of gene expression. (I) has improved affinity  
XX and specificity for their target sequences, as well as enhanced  
XX biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
XX represent DNA target sequences and zinc finger peptides which are given  
XX in the exemplification of the present invention.  
XX  
XX Sequence 7 AA;  
XX  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 125  
ABP50834  
ID ABP50834 standard; Peptide; 7 AA.  
XX  
XX ABP50834;  
XX  
XX 28-AUG-2002 (first entry)  
XX  
XX Zinc finger protein related peptide motif SEQ ID NO:3890.  
XX  
XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
XX Homo sapiens.  
XX Synthetic.  
XX  
XX WO200242459-A2.  
XX  
XX 30-MAY-2002.  
XX  
XX 20-NOV-2001; 2001WO-US43438.  
XX  
XX 20-NOV-2000; 2000US-0716637.  
XX  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
XX Liu Q;  
XX

XX WPI; 2002-500284/53.  
DR  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT C-terminus -  
PT  
XX  
PS Example 1; Page 61; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLNR 7  
Db 1 RSDHLNR 7  
RESULT 126  
ABP50840  
ID ABP50840 standard; Peptide; 7 AA.  
XX  
AC ABP50840;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3892.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT C-terminus -  
PT  
XX  
PS Example 1; Page 61; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (I) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
SQ  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLNR 7  
Db 1 RSDHLNR 7  
RESULT 127  
ABP50952  
ID ABP50952 standard; Peptide; 7 AA.  
XX  
AC ABP50952;  
XX  
DT 28-AUG-2002 (first entry)  
XX  
DE Zinc finger protein related peptide motif SEQ ID NO:2930.  
XX  
KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200242459-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 20-NOV-2001; 2001WO-US43438.  
XX  
PR 20-NOV-2000; 2000US-0716637.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Liu Q;  
XX  
DR WPI; 2002-500284/53.  
XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT C-terminus first, second and third zinc fingers, ordered from N- to

PT C-terminus -  
XX  
PS Example 1; Page 62; 81pp; English.  
XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
OY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
DB 1 RSDHLSR 7  
RESULT 128  
ABP50970  
ID ABP50970 standard; Peptide; 7 AA.  
XX AC ABP50970;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:2936.  
XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX Example 1; Page 62; 81pp; English.

XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
CC finger such that it binds to the S3 target sub-site, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target sub-sites having the nucleotide G in the 5'-most position of the  
CC sub-site. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.  
XX  
SQ Sequence 7 AA;  
OY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
DB 1 RSDHLSR 7  
RESULT 129  
ABP50973  
ID ABP50973 standard; Peptide; 7 AA.  
XX AC ABP50973;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:2937.  
XX KM Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -  
XX Example 1; Page 62; 81pp; English.  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)



CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 130  
ABP50982  
ID ABP50982 standard; Peptide; 7 AA.  
XX AC ABP50982;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:2940.  
XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 62; 81pp; English.  
XX CC The present invention describes a zinc finger protein (I) that binds to  
XX CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
XX CC it binds to the S1 target subsite, selecting the F2 zinc finger such

CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 131  
ABP50985  
ID ABP50985 standard; Peptide; 7 AA.  
XX AC ABP50985;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:2941.  
XX KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 62; 81pp; English.  
XX CC The present invention describes a zinc finger protein (I) that binds to  
XX CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
XX CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX CC it binds to the S1 target subsite, selecting the F2 zinc finger such



CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

SO Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 132

ID ABP51017 standard; Peptide; 7 AA.

AC ABP51017;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3951.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

PS Example 1; Page 62; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet

CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

SO Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 133

ID ABP51020 standard; Peptide; 7 AA.

AC ABP51020;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3952.

KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

PS Example 1; Page 62; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in

CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;  
QY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 134  
ABP51045  
ID ABP51045 standard; Peptide; 7 AA.  
XX AC ABP51045;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:2961.  
XX OS Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.  
XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 62; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
XX CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
XX CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
XX CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
XX CC finger such that it binds to the S3 target sub-site, thus designing (I)  
XX CC that binds to a target site. (I) is useful for recognition of triplet  
XX CC target sub-sites having the nucleotide G in the 5'-most position of the  
XX CC sub-site. (I) is useful in studying gene function, and for human  
XX CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
XX CC therapeutic methods to modulate the expression of a target region within  
XX CC a subject, in diagnostic methods for sequence specific detection of  
XX CC target nucleic acid in a sample, and in assays to determined the

CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX SQ Sequence 7 AA;  
QY Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 135  
ABP51057  
ID ABP51057 standard; Peptide; 7 AA.  
XX AC ABP51057;  
XX DT 28-AUG-2002 (first entry)  
XX DE Zinc finger protein related peptide motif SEQ ID NO:2965.  
XX OS Zinc finger protein; ZFP; DNA binding protein; zinc finger.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200242459-A2.  
XX PD 30-MAY-2002.  
XX PF 20-NOV-2001; 2001WO-US43438.  
XX PR 20-NOV-2000; 2000US-0716637.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Liu Q;  
XX DR WPI; 2002-500284/53.

XX PT New zinc finger protein that binds to target site, useful in studying  
XX PT gene function and for human therapeutics and plant engineering,  
XX PT comprises first, second and third zinc fingers, ordered from N- to  
XX PT C-terminus -  
XX PS Example 1; Page 63; 81pp; English.

XX CC The present invention describes a zinc finger protein (I) that binds to  
XX CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
XX CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
XX CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
XX CC and a third (S3) target sub-site. Also described are: (1) a polypeptide  
XX CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
XX CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
XX CC it binds to the S1 target sub-site, selecting the F2 zinc finger such  
XX CC that it binds to the S2 target sub-site, and selecting the F3 zinc  
XX CC finger such that it binds to the S3 target sub-site, thus designing (I)  
XX CC that binds to a target site. (I) is useful for recognition of triplet  
XX CC target sub-sites having the nucleotide G in the 5'-most position of the  
XX CC sub-site. (I) is useful in studying gene function, and for human  
XX CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
XX CC therapeutic methods to modulate the expression of a target region within  
XX CC a subject, in diagnostic methods for sequence specific detection of  
XX CC target nucleic acid in a sample, and in assays to determined the  
XX CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230

CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
      |||||  
      1 RSDHLSR 7  
Db

RESULT 136

ABP51117  
ID ABP51117 standard; Peptide; 7 AA.

XX  
AC ABP51117;

XX  
DT 28-AUG-2002 (first entry)

XX  
DE Zinc finger protein related peptide motif SEQ ID NO:2985.

XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX  
OS Homo sapiens.

OS  
Synthetic.

XX  
PN WO200242459-A2.

XX  
PD 30-MAY-2002.

XX  
PF 20-NOV-2001; 2001WO-US43438.

XX  
PR 20-NOV-2000; 2000US-0716637.

XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.

XX  
PI Liu Q;

XX  
DR WPI; 2002-500284/53.

XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX  
PS Example 1; Page 63; 81pp; English.

XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
      |||||  
      1 RSDHLSR 7  
Db

RESULT 137

ABP51161  
ID ABP51161 standard; Peptide; 7 AA.

XX  
AC ABP51161;

XX  
DT 28-AUG-2002 (first entry)

XX  
DE Zinc finger protein related peptide motif SEQ ID NO:3999.

XX  
KW Zinc finger protein; ZFP; DNA binding protein; zinc finger.

XX  
OS Homo sapiens.

OS  
Synthetic.

XX  
PN WO200242459-A2.

XX  
PD 30-MAY-2002.

XX  
PF 20-NOV-2001; 2001WO-US43438.

XX  
PR 20-NOV-2000; 2000US-0716637.

XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.

XX  
PI Liu Q;

XX  
DR WPI; 2002-500284/53.

XX  
PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX  
PS Example 1; Page 63; 81pp; English.

XX  
CC The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subsite. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subsite, selecting the F2 zinc finger such  
CC that it binds to the S2 target subsite, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subsite, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subsites having the nucleotide G in the 5'-most position of the  
CC subsite. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determined the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;

Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 138

ABP51168 standard; Peptide; 7 AA.

AC ABP51168;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:3002.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 63; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subunit. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subunit, selecting the F2 zinc finger such  
CC that it binds to the S2 target subunit, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subunit, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subunits having the nucleotide G in the 5'-most position of the  
CC subunit. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 139

ABP51182 standard; Peptide; 7 AA.

AC ABP51182;

DT 28-AUG-2002 (first entry)

DE Zinc finger protein related peptide motif SEQ ID NO:4006.

XX Zinc finger protein; ZFP; DNA binding protein; zinc finger.

OS Homo sapiens.

OS Synthetic.

PN WO200242459-A2.

PD 30-MAY-2002.

PF 20-NOV-2001; 2001WO-US43438.

PR 20-NOV-2000; 2000US-0716637.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Liu Q;

DR WPI; 2002-500284/53.

PT New zinc finger protein that binds to target site, useful in studying  
PT gene function and for human therapeutics and plant engineering,  
PT comprises first, second and third zinc fingers, ordered from N- to  
PT C-terminus -

XX Example 1; Page 63; 81pp; English.

XX The present invention describes a zinc finger protein (I) that binds to  
CC a target site, comprising a first (F1), a second (F2), and a third (F3)  
CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
CC and a third (S3) target subunit. Also described are: (1) a polypeptide  
CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
CC (3) designing (M) (I) involves selecting the F1 zinc finger such that  
CC it binds to the S1 target subunit, selecting the F2 zinc finger such  
CC that it binds to the S2 target subunit, and selecting the F3 zinc  
CC finger such that it binds to the S3 target subunit, thus designing (I)  
CC that binds to a target site. (I) is useful for recognition of triplet  
CC target subunits having the nucleotide G in the 5'-most position of the  
CC subunit. (I) is useful in studying gene function, and for human  
CC therapeutics and plant engineering. (I), (II) or (III) is useful in  
CC therapeutic methods to modulate the expression of a target region within  
CC a subject, in diagnostic methods for sequence specific detection of  
CC target nucleic acid in a sample, and in assays to determine the  
CC phenotype and function of gene expression. (I) has improved affinity  
CC and specificity for their target sequences, as well as enhanced  
CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230  
CC represent DNA target sequences and zinc finger peptides which are given  
CC in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7



RESULT 140  
AAB47804  
ID AAB47804 standard; Peptide; 7 AA.  
XX  
AC AAB47804;  
XX  
DT 25-MAR-2002 (first entry)  
XX  
DE VEGF-1 zinc finger domain F6.  
XX  
KW Target site; transcriptional effector protein; zinc finger domain;  
KW human; vascular endothelial growth factor; VEGF; cellular chromatin;  
KW gene expression; sequence-specific; DNA binding protein; phenotype;  
KW copy number; p53; cancer; gene function..  
XX  
OS Synthetic.  
XX  
PN WO200183751-A2.  
XX  
PD 08-NOV-2001.  
XX  
PF 27-APR-2001; 2001WO-US13631.  
XX  
PR 28-APR-2000; 2000US-200590P.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Raschke E, Wolffe AP, Case CC;  
XX  
DR WPI; 2002-066534/09.  
XX  
PT Binding an exogenous molecule (EM) to a binding site located within a  
PT region of interest in chromatin, useful for modulating gene expression,  
PT by identifying an EM target site within an accessible region and  
PT introducing the EM into the cell -  
XX  
PS Example 8; Page 25; 50pp; English.  
XX  
CC The sequences given in AAB47802-16 represent zinc finger domains  
CC derived from transcriptional effector proteins. These transcriptional  
CC effector proteins were designed to bind to target sites derived from  
CC the transcriptional initiation site of the human vascular endothelial  
CC growth factor (VEGF) gene. Target site #1 was bound by a binding domain  
CC containing six zinc fingers, named VEGF3a/1. Target site #2 was bound  
CC by a three-finger zinc finger domain, VEGF-1, and a control six-finger  
CC domain, GATA 15.5, was designed to bind to target sequence #3. The zinc  
CC finger containing proteins were used to demonstrate the method of the  
CC invention for binding an exogenous molecule (EM) to a binding site (BS),  
CC where the BS is located within a region of interest in cellular  
CC chromatin. The method comprises identifying an accessible region  
CC within the region of interest, identifying a target site for the EM  
CC within the accessible region, and introducing the EM into the cell,  
CC where the EM binds to the BS. The method is useful for modulating gene  
CC expression by administering an exogenous molecule. The binding of an  
CC exogenous molecule to a binding site in cellular chromatin can be used  
CC for detection of a particular sequence, for example, an exogenous  
CC molecule, such as a sequence-specific DNA binding protein, can be used  
CC to detect variant alleles associated with a disease or with a particular  
CC phenotype in patient samples and to detect the presence of pathological  
CC microorganisms in clinical samples. Exogenous molecules can also be  
CC used to quantify copy number of a gene in a sample. For example,  
CC detection of the loss of one copy of a p53 gene in a clinical sample is  
CC an indicator of susceptibility to cancer.  
CC The methods can also be used in assays to determine gene function and  
CC to determine changes in phenotype resulting from specific modulation  
CC of gene expression.  
XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLR 7  
DB 1 RSDHLR 7  
RESULT 141  
AAB47810  
ID AAB47810 standard; Peptide; 7 AA.  
XX  
AC AAB47810;  
XX  
DT 25-MAR-2002 (first entry)  
XX  
DE VEGF3a/1 zinc finger domain F6.  
XX  
KW Target site; transcriptional effector protein; zinc finger domain;  
KW human; vascular endothelial growth factor; VEGF; cellular chromatin;  
KW gene expression; sequence-specific; DNA binding protein; phenotype;  
KW copy number; p53; cancer; gene function..  
XX  
OS Synthetic.  
XX  
PN WO200183751-A2.  
XX  
PD 08-NOV-2001.  
XX  
PF 27-APR-2001; 2001WO-US13631.  
XX  
PR 28-APR-2000; 2000US-200590P.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Raschke E, Wolffe AP, Case CC;  
XX  
DR WPI; 2002-066534/09.  
XX  
PT Binding an exogenous molecule (EM) to a binding site located within a  
PT region of interest in chromatin, useful for modulating gene expression,  
PT by identifying an EM target site within an accessible region and  
PT introducing the EM into the cell -  
XX  
PS Example 8; Page 25; 50pp; English.  
XX  
CC The sequences given in AAB47802-16 represent zinc finger domains  
CC derived from transcriptional effector proteins. These transcriptional  
CC effector proteins were designed to bind to target sites derived from  
CC the transcriptional initiation site of the human vascular endothelial  
CC growth factor (VEGF) gene. Target site #1 was bound by a binding domain  
CC containing six zinc fingers, named VEGF3a/1. Target site #2 was bound  
CC by a three-finger zinc finger domain, VEGF-1, and a control six-finger  
CC domain, GATA 15.5, was designed to bind to target sequence #3. The zinc  
CC finger containing proteins were used to demonstrate the method of the  
CC invention for binding an exogenous molecule (EM) to a binding site (BS),  
CC where the BS is located within a region of interest in cellular  
CC chromatin. The method comprises identifying an accessible region  
CC within the region of interest, identifying a target site for the EM  
CC within the accessible region, and introducing the EM into the cell,  
CC where the EM binds to the BS. The method is useful for modulating gene  
CC expression by administering an exogenous molecule. The binding of an  
CC exogenous molecule to a binding site in cellular chromatin can be used  
CC for detection of a particular sequence, for example, an exogenous  
CC molecule, such as a sequence-specific DNA binding protein, can be used  
CC to detect variant alleles associated with a disease or with a particular  
CC phenotype in patient samples and to detect the presence of pathological  
CC microorganisms in clinical samples. Exogenous molecules can also be  
CC used to quantify copy number of a gene in a sample. For example,  
CC detection of the loss of one copy of a p53 gene in a clinical sample is  
CC an indicator of susceptibility to cancer.  
CC The methods can also be used in assays to determine gene function and  
CC to determine changes in phenotype resulting from specific modulation  
CC of gene expression.



XX SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 142  
ABB07127 standard; peptide; 7 AA.  
XX ID ABB07127 standard; peptide; 7 AA.  
XX AC ABB07127;  
XX DT 13-MAR-2002 (first entry)  
XX DB Human veg 1 protein zinc finger fragment F3.  
XX KW VEGF; chromatin; cytosstatic; vasotropic; antidiabetic; ophthalmological;  
KW antirheumatic; antiarthritic; antipsoriatic; anti-HIV; antisickling;  
KW neuroprotective; nootropic; cerebroprotective; antibacterial; fungicide;  
KW virucide; gene therapy; Veg 1; zinc finger.  
XX OS Homo sapiens.  
XX PN WO200183793-A2.  
XX PD 08-NOV-2001.  
XX PF 27-APR-2001; 2001WO-US40616.  
XX PR 28-APR-2000; 2000US-200590P.  
XX PR 28-AUG-2000; 2000US-228523P.  
XX PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX PI Wolffe AP, Collingwood T;  
XX DR WPI; 2002-075165/10.  
XX PT Modification of chromatin structure for facilitating transcription,  
PT replication and repair, comprises contacting chromatin with fusion  
PT molecule comprising DNA binding domain and component of a chromatin  
PT remodeling complex -  
XX PS Example 1; Page 59; 99pp; English.  
XX CC The invention provides a method of modifying a region of interest in  
CC cellular chromatin that involves contacting the cellular chromatin with a  
CC fusion molecule that binds to a binding site in the region of interest,  
CC where the fusion molecule comprises a DNA binding domain and a component  
CC of a chromatin remodeling complex or its functional fragment, which  
CC modifies the region of interest. The method is useful for modifying a  
CC region of interest, in particular a gene encoding a product such as  
CC vascular endothelial growth factor, erythropoietin, androgen receptor,  
CC peroxisome proliferator-activated receptor (PPAR-gamma2), p16, p53, pRb,  
CC dystrophin and e-cadherin in cellular chromatin present in a plant,  
CC animal or human cell. The chromatin modification facilitates detection  
CC of sequence of interest comprising a single nucleotide polymorphism,  
CC activation or repression of a gene of interest or recombination between  
CC an exogenous nucleic acid and cellular chromatin. It also results in  
CC generation of an accessible region in the cellular chromatin which  
CC facilitates binding of an exogenous molecule such as polypeptides,  
CC nucleic acids, small molecule therapeutics, minor groove binders, major  
CC groove binders and intercalators. The fusion molecule may be used for  
CC modulating expression of a gene and for binding an exogenous molecule to  
CC a binding site located within a gene in cellular chromatin.  
CC Polynucleotides encoding the fusion polypeptide are useful for gene  
CC therapy to modulate gene expression, for therapeutic or prophylactic

CC applications, e.g., for treating cancer, ischemia, diabetic retinopathy,  
CC macular degeneration, rheumatoid arthritis, psoriasis, HIV infection,  
CC sickle cell anemia, Alzheimer's disease, muscular dystrophy, vascular  
CC disease, neurodegenerative diseases, cystic fibrosis, stroke and for  
CC inhibiting microorganisms, e.g., Chlamydia, Mycobacteria, Pneumococci,  
CC infectious fungus, e.g., Candida sp. and viruses, e.g., hepatitis.  
CC Sequences ABB07125-130 represent DNA-binding zinc fingers of the human  
CC VEGF-A protein.  
XX SQ Sequence 7 AA;  
Query Match 100.0%; Score 36; DB 23; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7  
RESULT 143  
ABG75734 standard; peptide; 7 AA.  
XX ID ABG75734 standard; peptide; 7 AA.  
XX AC ABG75734;  
XX DT 25-APR-2003 (first entry)  
XX DE Zinc finger protein recognition helix SBS3.  
XX KW Zinc finger protein; zinc finger protein-regulated gene; cancer;  
KW nephritis; prostate hypertrophy; haematopoiesis; osteoporosis; obesity;  
KW cardiovascular disease; diabetes; recognition helix.  
XX OS Synthetic.  
XX PN US2002146691-A1.  
XX PD 10-OCT-2002.  
XX PF 06-DEC-2000; 2000US-0731558.  
XX PR 06-DEC-1999; 99US-0456100.  
XX PA (CASE/) CASE C C.  
PA (LITU/) LITU Q.  
PA (REBA/) REBAR E J.  
PA (WOLF/) WOLFFE A P.  
XX PI Case CC, Litu Q, Rebar EJ, Wolffe AP;  
XX DR WPI; 2003-247121/24.  
XX PT Identification of gene(s) associated with selected phenotype comprises  
XX using libraries of randomized zinc finger proteins -  
XX PS Example 1; Page 15; 26pp; English.  
XX CC The invention relates to identification of gene(s) associated with a  
CC selected phenotype comprising providing a nucleic acid library of  
CC nucleotide sequences that encode at least partially randomised zinc  
CC finger proteins, transducing cells with expression vectors, culturing and  
CC assaying the cells for a selected phenotype, and identifying the  
CC gene(s) whose expression is modulated by expression of a zinc finger  
CC protein. The method is used for the identification of gene(s) associated  
CC with a selected phenotype which is related to cancer, nephritis,  
CC prostate hypertrophy, haematopoiesis, osteoporosis, obesity,  
CC cardiovascular disease, or diabetes. It is useful in academic  
CC laboratories, pharmaceutical companies, genomics companies,  
CC agricultural companies, chemical companies, and in the biotechnology  
CC industry. The present sequence is a zinc finger protein nucleotide  
CC triplet recognition helix incorporated into a library of the  
CC invention, a combination of any 5 out of 12 helices would recognise a

CC unique 15 base pair sequence.  
XX  
SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 24; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 144  
ABG75746  
ID ABG75746 standard; peptide; 7 AA.

XX AC ABG75746;

XX DT 25-APR-2003 (first entry)

XX DE Three Zinc finger protein library, finger 3.

XX KW Zinc finger protein; zinc finger protein-regulated gene; cancer;

XX KW nephritis; prostate hypertrophy; haematopoiesis; osteoporosis; obesity;

XX KW cardiovascular disease; diabetes.

XX OS Synthetic.

XX PN US2002146691-A1.

XX PD 10-OCT-2002.

XX PF 06-DEC-2000; 2000US-0731558.

XX PR 06-DEC-1999; 99US-0456100.

XX PA (CASE/) CASE C C.

XX PA (LIU/) LIU Q.

XX PA (REBA/) REBAR E J.

XX PA (WOLF/) WOLFFE A P.

XX PI Case CC, Liu Q, Rebar EJ, Wolfe AP;

XX DR WPI; 2003-247121/24.

XX PT Identification of gene(s) associated with selected phenotype comprises

XX PT using libraries of randomized zinc finger proteins

XX PS Example 2; Page 16; 26pp; English.

XX CC The invention relates to identification of gene(s) associated with a  
CC selected phenotype comprising providing a nucleic acid library of  
CC nucleotide sequences that encode at least partially randomised zinc  
CC finger proteins, transducing cells with expression vectors, culturing and  
CC assaying the cells for a selected phenotype, and identifying the  
CC gene(s) whose expression is modulated by expression of a zinc finger  
CC protein. The method is used for the identification of gene(s) associated  
CC with a selected phenotype which is related to cancer, nephritis,  
CC prostate hypertrophy, haematopoiesis, osteoporosis, obesity,  
CC cardiovascular disease, or diabetes. It is useful in academic  
CC laboratories, pharmaceutical companies, genomics companies,  
CC agricultural companies, chemical companies, and in the biotechnology  
CC industry. The present sequence is a Three Zinc finger protein library,  
CC finger 3.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 24; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7

Db |||  
1 RSDHLSR 7

RESULT 145  
AAE30450  
ID AAE30450 standard; peptide; 7 AA.

XX AC AAE30450;

XX DT 24-FEB-2003 (first entry)

XX DE VEGF specific zinc finger protein DNA binding domain #3.

XX KW DNA binding specificity; zinc finger protein; specificity optimisation;

XX KW ZFP; gene expression; VEGF; DNA binding domain.

XX OS Unidentified.

XX PN WO200277227-A2.

XX PD 03-OCT-2002.

XX PF 20-NOV-2001; 2001WO-US43568.

XX PR 20-NOV-2000; 2000US-0716637.

XX PA (SANG-) SANGAMO BIOSCIENCES INC.

XX PI Eisenberg SP, Liu Q, Jamieson A, Rebar E;

XX DR WPI; 2003-029936/02.

XX PT Enhancing the binding specificity of a zinc finger protein, comprises

XX PT substituting amino acids in the protein for residues in the target

XX PS Example 5; Page 46; 55pp; English.

XX CC The present invention relates to a novel method of enhancing the binding  
CC specificity of a binding protein (zinc finger protein (ZFP)). The method  
CC involves substituting one or more amino acids at positions in the binding  
CC protein that affect the specificity of the binding protein for residues  
CC in the target sequence to make a modified binding protein. The method is  
CC useful in optimising the specificity of a binding protein, in modulating  
CC the expression of a target gene in a subject and in diagnostic methods  
CC for sequence-specific detection of a target nucleic acid in a sample.  
CC The present sequence is VEGF specific zinc finger protein DNA binding  
CC domain. This sequence is used in the exemplification of the invention.

XX SQ Sequence 7 AA;

Query Match 100.0%; Score 36; DB 24; Length 7;  
Best Local Similarity 100.0%; Pred. No. 9.3e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 146  
AAB07699  
ID AAB07699 standard; Protein; 99 AA.

XX AC AAB07699;

XX DT 07-NOV-2000 (first entry)

XX DE Zinc finger protein VEGF1 which inhibits VEGF gene.

XX KW Zinc finger protein; ZFP; cancer; ischemia; diabetic retinopathy;

XX KW macular degeneration; rheumatoid arthritis; psoriasis; viral infection;

XX sickle cell anaemia; Alzheimer's disease; cystic fibrosis;  
KW neurodegenerative disease; stroke; disease resistance;  
KW flavour modification; fruit ripening; oil production; crop plant;  
KW vascular endothelial growth factor; VEGF.  
XX Synthetic.  
XX WO200041566-A1.  
XX 20-JUL-2000.  
XX 06-JAN-2000; 2000WO-US00409.  
XX 12-JAN-1999; 99US-0229037.  
XX (SANA-) SANAGAMO BIOSCIENCES INC.  
XX Cox GN, Case CC, Eisenberg SP, Jarvis BE, Spratt SK;  
XX WPI: 2000-475918/41.  
XX N-PSDB; AAB07699.  
XX Method of modulating expression of an endogenous cellular gene in a  
PT cell to prevent gene activation or prevent repression of gene  
PT expression comprising contacting a target sequence with a zinc finger  
PT protein -  
XX Example 1; Page 60; 101pp; English.  
XX The specification describes a method for modulating expression of an  
CC endogenous cellular gene in a cell. The method comprises contacting a  
CC target site in the endogenous cellular gene with a zinc finger protein  
CC (ZFP). The method is used to inhibit expression of a gene, to activate  
CC expression of a developmentally silent or inactive endogenous cellular  
CC gene e.g. EPO, GATA, hemoglobin gamma, hemoglobin delta, an interleukin,  
CC granulocyte macrophage colony stimulating factor (GM-CSF), eutrophin or  
CC MyoD. Modulation of gene expression can be used for treating cancer,  
CC ischemia, diabetic retinopathy, macular degeneration, rheumatoid  
CC arthritis, psoriasis, viral infection, sickle cell anaemia, Alzheimer's  
CC disease, cystic fibrosis, neurodegenerative diseases and stroke.  
CC ZFPs can be used to engineer plants which have increased disease  
CC resistance, modification of flavours, fruit ripening, yield, colour, and  
CC for enhanced oil production in crop plants. The ZFPs can also be used  
CC in assays to determine the phenotypic consequences and function of gene  
CC expression. The present sequence represents a ZFP, which inhibits human  
CC vascular endothelial growth factor (VEGF) gene.  
XX SQ Sequence 99 AA;  
QY Query Match 100.0%; Score 36; DB 21; Length 99;  
Best Local Similarity 100.0%; Pred. No. 4.6;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Db 1 RSDHLRSR 7  
81 RSDHLRSR 87  
RESULT 147  
AAE08712  
ID AAE08712 standard; Protein: 99 AA.  
XX  
XX AAE08712;  
AC 15-NOV-2001 (first entry)  
XX  
XX Human ZFP-vascular endothelial growth factor 1 (VEGF1) protein.  
DE Human; vascular endothelial growth factor; VEGF1; molecular target;  
KW zinc finger protein; ZFP; cellular process; signal transduction;  
KW drug-screening.  
XX  
OS Homo sapiens.

XX WO200159450-A2.  
XX 16-AUG-2001.  
XX 08-FEB-2001; 2001WO-US04301.  
XX 08-FEB-2000; 2000US-0181117.  
XX (SANG-) SANGAMO BIOSCIENCES INC.  
XX Case C;  
XX WPI: 2001-522491/57.  
XX N-PSDB; AAD15335.  
XX Screening compound for interaction with molecular target by contacting  
PT compound with cells, comprising exogenous zinc finger protein that  
PT modulates expression of target, and determining values of properties of  
PT cells -  
XX Example 1; Page 53; 99pp; English.  
XX The invention relates to a method of screening a compound for interaction  
CC with a molecular target. The method involves contacting first and  
CC second cells with the compound and determining the values of properties  
CC of the compound. The second cell comprises an exogenous zinc finger  
CC protein (ZFP) that modulates the expression of the molecular target, or  
CC isolating membranes from cell comprising ZFP. The methods allow for high  
CC throughput screening of candidate compound and reduces the incidence of  
CC false positives. The methods are useful for screening a compound for its  
CC interaction with a molecular target or for screening a compound for its  
CC effect on a cellular process. The method is useful for testing a compound  
CC for its capacity to transduce a signal to the molecular target or its  
CC capacity to block transduction of a signal through the molecular target,  
CC and for performing biochemical drug-screening assays. The present  
CC sequence is human vascular endothelial growth factor 1 (VEGF1)-ZFP  
CC protein. VEGF is a 46 kDa glycoprotein that is an endothelial  
CC cell-specific mitogen induced by hypoxia. VEGF has been implicated in  
CC angiogenesis associated with cancer, various retinopathies and other  
CC serious diseases.  
XX SQ Sequence 99 AA;  
QY Query Match 100.0%; Score 36; DB 22; Length 99;  
Best Local Similarity 100.0%; Pred. No. 4.6;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Db 1 RSDHLRSR 7  
81 RSDHLRSR 87  
RESULT 148  
AAE21124  
ID AAE21124 standard; peptide: 99 AA.  
XX  
XX AAE21124;  
AC 01-JUL-2002 (first entry)  
XX  
XX 3 finger protein used to modulate gene expression.  
DE DNA binding protein; zinc finger domain; zinc finger protein; ZFP;  
KW viral replication; gene expression; virucide; 3 finger protein.  
XX Unidentified.  
XX WO200208286-A2.  
XX 31-JAN-2002.  
XX 19-JUL-2001; 2001WO-EP08367.

XX 21-JUL-2000; 2000US-220060P.  
PR (SYGN ) SYNGENTA PARTICIPATIONS AG.  
XX Sera T;  
XX WPI; 2002-172000/22.  
DR New Zinc Finger Protein (ZFP) comprising three essential domains useful  
XX for diagnosing diseases associated with abnormal genomic structure -  
PT  
XX  
PS Claim 1; Page 28; 143pp; English.  
XX  
XX The present invention relates to novel DNA binding proteins comprising  
CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to  
CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a 3 finger protein used  
CC to modulate gene expression.  
XX  
SQ Sequence 99 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 99;  
Best Local Similarity 100.0%; Pred. No. 4.6;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
Db 81 RSDHLSR 87  
RESULT 149  
AAE21125  
ID AAE21125 standard; peptide; 99 AA.  
XX  
AC AAE21125;  
XX  
DT 01-JUL-2002 (first entry)  
XX  
DE Zinc finger protein containing reduced DNA binding domains #1.  
XX  
XX DNA binding protein; zinc finger domain; zinc finger protein; ZFP;  
KW viral replication; gene expression; virucide; DNA binding domain.  
XX  
OS Unidentified.  
XX  
XX WO200208286-A2.  
XX  
PD 31-JAN-2002.  
XX  
PF 19-JUL-2001; 2001WO-EP08367.  
XX  
PR 21-JUL-2000; 2000US-220060P.  
XX  
PA (SYGN ) SYNGENTA PARTICIPATIONS AG.  
XX  
PI Sera T;  
XX  
DR WPI; 2002-172000/22.  
XX  
PT New Zinc Finger Protein (ZFP) comprising three essential domains useful  
XX for diagnosing diseases associated with abnormal genomic structure -  
XX  
PS Claim 1; Page 28; 143pp; English.  
XX  
CC The present invention relates to novel DNA binding proteins comprising

CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to  
CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a zinc finger protein  
CC containing reduced DNA binding domains.  
XX  
SQ Sequence 99 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 99;  
Best Local Similarity 100.0%; Pred. No. 4.6;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 RSDHLSR 7  
Db 84 RSDHLSR 90  
RESULT 150  
AAE21126  
ID AAE21126 standard; peptide; 99 AA.  
XX  
AC AAE21126;  
XX  
DT 01-JUL-2002 (first entry)  
XX  
DE Zinc finger protein containing reduced DNA binding domains #2.  
XX  
XX DNA binding protein; zinc finger domain; zinc finger protein; ZFP;  
KW viral replication; gene expression; virucide; DNA binding domain.  
XX  
OS Unidentified.  
XX  
XX WO200208286-A2.  
XX  
PD 31-JAN-2002.  
XX  
PF 19-JUL-2001; 2001WO-EP08367.  
XX  
PR 21-JUL-2000; 2000US-220060P.  
XX  
PA (SYGN ) SYNGENTA PARTICIPATIONS AG.  
XX  
PI Sera T;  
XX  
DR WPI; 2002-172000/22.  
XX  
PT New Zinc Finger Protein (ZFP) comprising three essential domains useful  
XX for diagnosing diseases associated with abnormal genomic structure -  
XX  
PS Claim 1; Page 28-29; 143pp; English.  
XX  
XX The present invention relates to novel DNA binding proteins comprising  
CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to  
CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a zinc finger protein  
CC containing reduced DNA binding domains.  
XX  
SQ Sequence 99 AA;  
XX  
Query Match 100.0%; Score 36; DB 23; Length 99;

Best Local Similarity 100.0%; Pred. No. 4.6;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 84 RSDHLSR 90

RESULT 151

AAE21127  
ID AAE21127 standard; peptide; 99 AA.

XX  
AC AAE21127;

DT 01-JUL-2002 (first entry)

DE Zinc finger protein containing reduced DNA binding domains #3.

KW DNA binding protein; zinc finger domain; zinc finger protein; ZFP;

KW viral replication; gene expression; virucide; DNA binding domain.

OS Unidentified.

PN WO200208286-A2.

PD 31-JAN-2002.

PF 19-JUL-2001; 2001WO-EP08367.

PR 21-JUL-2000; 2000US-220060P.

PA (SYGN ) SYNGENTA PARTICIPATIONS AG.

PI Sera T;

DR WPI; 2002-172000/22.

PT New Zinc Finger Protein (ZFP) comprising three essential domains useful

PT for diagnosing diseases associated with abnormal genomic structure -

PS Claim 1; Page 29; 143p; English.

XX The present invention relates to novel DNA binding proteins comprising  
CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to  
CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a zinc finger protein  
CC containing reduced DNA binding domains.

SQ Sequence 99 AA;

Query Match

Best Local Similarity 100.0%; Score 36; DB 23; Length 99;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 84 RSDHLSR 90

RESULT 152

AAE21128  
ID AAE21128 standard; peptide; 99 AA.

XX  
AC AAE21128;

DT 01-JUL-2002 (first entry)

XX Zinc finger protein containing reduced DNA binding domains #4.

KW DNA binding protein; zinc finger domain; zinc finger protein; ZFP;

KW viral replication; gene expression; virucide; DNA binding domain.

OS Unidentified.

PN WO200208286-A2.

PD 31-JAN-2002.

PF 19-JUL-2001; 2001WO-EP08367.

PR 21-JUL-2000; 2000US-220060P.

PA (SYGN ) SYNGENTA PARTICIPATIONS AG.

PI Sera T;

DR WPI; 2002-172000/22.

PT New Zinc Finger Protein (ZFP) comprising three essential domains useful

PT for diagnosing diseases associated with abnormal genomic structure -

PS Claim 1; Page 29; 143p; English.

XX The present invention relates to novel DNA binding proteins comprising  
CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to  
CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a zinc finger protein  
CC containing reduced DNA binding domains.

SQ Sequence 99 AA;

Query Match

Best Local Similarity 100.0%; Score 36; DB 23; Length 99;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 84 RSDHLSR 90

RESULT 153

AAE21129  
ID AAE21129 standard; peptide; 99 AA.

XX  
AC AAE21129;

DT 01-JUL-2002 (first entry)

DE Zinc finger protein containing reduced DNA binding domains #5.

KW DNA binding protein; zinc finger domain; zinc finger protein; ZFP;

KW viral replication; gene expression; virucide; DNA binding domain.

OS Unidentified.

PN WO200208286-A2.

PD 31-JAN-2002.

PF 19-JUL-2001; 2001WO-EP08367.

PR 21-JUL-2000; 2000US-220060P.



XX (SYGN ) SYNGENTA PARTICIPATIONS AG.  
PA Sera T;  
XX WPI; 2002-172000/22.  
XX  
XX  
PT New Zinc Finger Protein (ZFP) comprising three essential domains useful  
PT for diagnosing diseases associated with abnormal genomic structure -  
XX  
XX  
PS Claim 1; Page 29; 143pp; English.  
XX  
CC The present invention relates to novel DNA binding proteins comprising  
CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to  
CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a zinc finger protein  
CC containing reduced DNA binding domains.  
XX  
SQ Sequence 99 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 99;  
Best Local Similarity 100.0%; Pred. NO. 4.6;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
      |||||  
      84 RSDHLSR 90  
Db  
  
RESULT 154  
AAE21130  
ID AAE21130 standard; peptide; 99 AA.  
XX  
AC AAE21130;  
XX  
DT 01-JUL-2002 (first entry)  
XX  
DE Zinc finger protein containing reduced DNA binding domains #6.  
XX  
XX DNA binding protein; zinc finger domain; zinc finger protein; ZFP;  
KM viral replication; gene expression; virucide; DNA binding domain.  
XX  
XX Unidentified.  
OS  
XX  
PN WO200208286-A2.  
XX  
PD 31-JAN-2002.  
XX  
PF 19-JUL-2001; 2001WO-EP08367.  
XX  
PR 21-JUL-2000; 2000US-220060P.  
XX  
PA (SYGN ) SYNGENTA PARTICIPATIONS AG.  
XX  
PI Sera T;  
XX  
DR WPI; 2002-172000/22.  
XX  
PT New Zinc Finger Protein (ZFP) comprising three essential domains useful  
PT for diagnosing diseases associated with abnormal genomic structure -  
XX  
XX Claim 1; Page 29; 143pp; English.  
XX  
CC The present invention relates to novel DNA binding proteins comprising  
CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to

CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a zinc finger protein  
CC containing reduced DNA binding domains.  
XX  
SQ Sequence 99 AA;  
  
Query Match 100.0%; Score 36; DB 23; Length 99;  
Best Local Similarity 100.0%; Pred. NO. 4.6;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RSDHLSR 7  
      |||||  
      84 RSDHLSR 90  
Db  
  
RESULT 155  
ABB07131  
ID ABB07131 standard; Protein; 99 AA.  
XX  
AC ABB07131;  
XX  
DT 13-MAR-2002 (first entry)  
XX  
DE Human Veg 1 domain amino acid sequence.  
XX  
KM VEGF; chromatin; cytosstatic; vasotropic; antidiabetic; ophthalmological;  
KM antirheumatic; antiarthritic; antipsoriatic; anti-HIV; antisickling;  
KM neuroprotective; nootropic; cerebroprotective; antibacterial; fungicide;  
KM virucide; gene therapy; Veg 1; zinc finger.  
XX  
XX Homo sapiens.  
OS  
XX  
PN WO200183793-A2.  
XX  
PD 08-NOV-2001.  
XX  
PF 27-APR-2001; 2001WO-US40616.  
XX  
PR 28-APR-2000; 2000US-200590P.  
PR 28-AUG-2000; 2000US-228523P.  
XX  
PA (SANG-) SANGAMO BIOSCIENCES INC.  
XX  
PI Wolfe AP, Collingwood T;  
XX  
XX WPI; 2002-075165/10.  
DR N-PSDB; AAI67953.  
XX  
PT Modification of chromatin structure for facilitating transcription,  
PT replication and repair, comprises contacting chromatin with fusion  
PT molecule comprising DNA binding domain and component of a chromatin  
PT remodeling complex -  
XX  
XX Example 1; Page 60; 99pp; English.  
PS  
XX  
CC The invention provides a method of modifying a region of interest in  
CC cellular chromatin that involves contacting the cellular chromatin with a  
CC fusion molecule that binds to a binding site in the region of interest,  
CC where the fusion molecule comprises a DNA binding domain and a component  
CC of a chromatin remodeling complex or its functional fragment, which  
CC modifies the region of interest. The method is useful for modifying a  
CC region of interest, in particular a gene encoding a product such as  
CC vascular endothelial growth factor, erythropoietin, androgen receptor,  
CC peroxisome proliferator-activated receptor (PPAR-gamma2), p16, p53, pRb,  
CC dystrophin and e-cadherin in cellular chromatin present in a plant,  
CC animal or human cell. The chromatin modification facilitates detection  
CC of sequence of interest comprising a single nucleotide polymorphism,

```
RESULT 5
US-09-989-789-238
; Sequence 238, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 238
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-238

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 6
US-09-989-789-239
; Sequence 239, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 239
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-239

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 7
US-09-989-789-244
; Sequence 244, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 244
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-244

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 8
US-09-989-789-420
; Sequence 420, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 420
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-420

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 9
US-09-989-789-425
; Sequence 425, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 425
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-425

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

PT protein -  
XX  
PS Example 2; Page 64-65; 101pp; English.  
XX  
CC The specification describes a method for modulating expression of an  
CC endogenous cellular gene in a cell. The method comprises contacting a  
CC target site in the endogenous cellular gene with a zinc finger protein  
CC (ZFP). The method is used to inhibit expression of a gene, to activate  
CC expression of a developmentally silent or inactive endogenous cellular  
CC gene e.g. EPO, GATA, hemoglobin gamma, hemoglobin delta, an interleukin,  
CC granulocyte macrophage colony stimulating factor (GM-CSF), eutrophin or  
CC MyoD. Modulation of gene expression can be used for treating cancer,  
CC ischemia, diabetic retinopathy, macular degeneration, rheumatoid  
CC arthritis, psoriasis, viral infection, sickle cell anaemia, Alzheimer's  
CC disease, cystic fibrosis, neurodegenerative diseases and stroke.  
CC ZFPs can be used to engineer plants which have increased disease  
CC resistance, modification of flavours, fruit ripening, yield, colour, and  
CC for enhanced oil production in crop plants. The ZFPs can also be used  
CC in assays to determine the phenotypic consequences and function of gene  
CC expression. The present sequence represents a 6 finger ZFP, which  
CC inhibits human vascular endothelial growth factor (VEGF) gene.

XX Sequence 196 AA;

Query Match 100.0%; Score 36; DB 21; Length 196;  
Best Local Similarity 100.0%; Pred. No. 9.5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
DB 178 RSDHLSR 184

## RESULT 158

AAE08714  
ID AAE08714 standard; Protein; 196 AA.

XX  
AC AAE08714;

DT 15-NOV-2001 (first entry)

DE Human ZFP-vascular endothelial growth factor 3a/1 (VEGF3a/1) protein.

KW Human; vascular endothelial growth factor; VEGF3a/1; molecular target;  
KW zinc finger protein; ZFP; cellular process; signal transduction;

KW drug-screening.

OS Homo sapiens.

PN WO200159450-A2.

PD 16-AUG-2001.

PF 08-FEB-2001; 2001WO-US04301.

PR 08-FEB-2000; 2000US-0181117.

PA (SANG-) SANGAMO BIOSCIENCES INC.

PI Case C;

DR WPI; 2001-522491/57.

DR N-PSDB; AAD15346.

PT Screening compound for interaction with molecular target by contacting  
PT compound with cells, comprising exogenous zinc finger protein that  
PT modulates expression of target, and determining values of properties of  
PT cells -

PS Example 2; Page 58; 99pp; English.

CC The invention relates to a method of screening a compound for interaction  
CC with a molecular target. The method involves contacting first and

CC second cells with the compound and determining the values of properties  
CC of the compound. The second cell comprises an exogenous zinc finger  
CC protein (ZFP) that modulates the expression of the molecular target, or  
CC isolating membranes from cell comprising ZFP. The methods allow for high  
CC throughput screening of candidate compound and reduces the incidence of  
CC false positives. The methods are useful for screening a compound for its  
CC interaction with a molecular target or for screening a compound for its  
CC effect on a cellular process. The method is useful for testing a compound  
CC for its capacity to transduce a signal to the molecular target or its  
CC capacity to block transduction of a signal through the molecular target,  
CC and for performing biochemical drug-screening assays. The present  
CC sequence is human vascular endothelial growth factor 3a  
CC (VEGF3a/1)-ZFP protein. VEGF is a 46 kDa glycoprotein that is  
CC an endothelial cell-specific mitogen induced by hypoxia. VEGF has  
CC been implicated in angiogenesis associated with cancer, various  
CC retinopathies and other serious diseases.

XX Sequence 196 AA;

Query Match 100.0%; Score 36; DB 22; Length 196;  
Best Local Similarity 100.0%; Pred. No. 9.5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
DB 178 RSDHLSR 184

## RESULT 159

AAE21123  
ID AAE21123 standard; peptide; 196 AA.

XX  
AC AAE21123;

DT 01-JUL-2002 (first entry)

DE 5 finger protein used to modulate gene expression.

KW DNA binding protein; zinc finger domain; zinc finger protein; ZFP;  
KW viral replication; gene expression; virucide; 5 finger protein.

OS Unidentified.

PN WO200208286-A2.

PD 31-JAN-2002.

PF 19-JUL-2001; 2001WO-EP08367.

PR 21-JUL-2000; 2000US-220060P.

PA (SYGN ) SYNGENTA PARTICIPATIONS AG.

PI Sera T;

DR WPI; 2002-172000/22.

PT New Zinc Finger Protein (ZFP) comprising three essential domains useful  
PT for diagnosing diseases associated with abnormal genomic structure -  
XX  
PS Claim 1; Page 28; 143pp; English.

CC The present invention relates to novel DNA binding proteins comprising  
CC zinc finger domains in which two histidine and two cysteine residues  
CC coordinate a central zinc ion. The invention particularly relates to  
CC the identification of a context-independent recognition code to design  
CC zinc finger domains. The invention also relates to zinc finger proteins  
CC (ZFP) designed using this recognition code. The ZFPs are useful for  
CC altering genomic structure, inhibiting viral replication (where viral  
CC replication is inhibited for plant virus, an animal virus or a human  
CC virus), modulating gene expression, detecting an altered zinc finger  
CC recognition sequence and diagnosing disease associated with abnormal  
CC genomic structure. The present sequence is a 5 finger protein used

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

## RESULT 15

US-09-989-789-888  
; Sequence 888, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 888  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-888

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

## RESULT 16

US-09-989-789-1001  
; Sequence 1001, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1001  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1001

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

## RESULT 17

US-09-989-789-1089  
; Sequence 1089, Application US/09989789  
; Patent No. US20020063379A1

GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1089  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1089

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

## RESULT 18

US-09-989-789-1090  
; Sequence 1090, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1090  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1090

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

## RESULT 19

US-09-989-789-1091  
; Sequence 1091, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1091  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1091

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 20  
US-09-989-789-1094  
; Sequence 1094, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1094  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1094

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 21  
US-09-989-789-1138  
; Sequence 1138, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1138  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1138

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 22  
US-09-989-789-1139  
; Sequence 1139, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1139  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1139

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 23  
US-09-989-789-1178  
; Sequence 1178, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1178  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1178

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

RESULT 24  
US-09-989-789-1179  
; Sequence 1179, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



```

; SEQ ID NO 1179
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1179

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

# RESULT 25

```

US-09-989-789-1199
; Sequence 1199, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1199
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1199

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

# RESULT 26

```

US-09-989-789-1207
; Sequence 1207, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1207
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1207

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7

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Db 1 RSDHLSR 7

```

# RESULT 27

```

US-09-989-789-1219
; Sequence 1219, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1219
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1219

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

# RESULT 28

```

US-09-989-789-1220
; Sequence 1220, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1220
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1220

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

# RESULT 29

```

US-09-989-789-1224
; Sequence 1224, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2

```

```

; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1224
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1224

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 30
US-09-989-789-1225
; Sequence 1225, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1225
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1225

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 31
US-09-989-789-1234
; Sequence 1234, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1234
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1234

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;

```

```

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 32
US-09-989-789-1260
; Sequence 1260, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1260
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1260

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 33
US-09-989-789-1471
; Sequence 1471, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1471
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1471

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 34
US-09-989-789-1529
; Sequence 1529, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:

```

```

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1529
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1529

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 35
US-09-989-789-1530
; Sequence 1530, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1530
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1530

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 36
US-09-989-789-1541
; Sequence 1541, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1541
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

```

```

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1541

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 37
US-09-989-789-1546
; Sequence 1546, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1546
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1546

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 38
US-09-989-789-1565
; Sequence 1565, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1565
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1565

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 39

```

```
US-09-989-789-1575
; Sequence 1575, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1575
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1575

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 40
US-09-989-789-1603
; Sequence 1603, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1603
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1603

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 41
US-09-989-789-1714
; Sequence 1714, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1714
```

```
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1714

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 42
US-09-989-789-1715
; Sequence 1715, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1715
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1715

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 43
US-09-989-789-1716
; Sequence 1716, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1716
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-1716

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

Db 1 RSDHLSR 7

## RESULT 44

US-09-989-789-1717  
; Sequence 1717, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1717  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1717

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

## RESULT 45

US-09-989-789-1718  
; Sequence 1718, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1718  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1718

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

## RESULT 46

US-09-989-789-1870  
; Sequence 1870, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1870  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1870

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

## RESULT 47

US-09-989-789-1872  
; Sequence 1872, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1872  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1872

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

## RESULT 48

US-09-989-789-1878  
; Sequence 1878, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1878  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1878

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;



Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||

Db 1 RSDHLSR 7

## RESULT 49

US-09-989-789-1881

; Sequence 1881, Application US/09989789

; Patent No. US20020063379A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1881

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-1881

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||

Db 1 RSDHLSR 7

## RESULT 50

US-09-989-789-1882

; Sequence 1882, Application US/09989789

; Patent No. US20020063379A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1882

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-1882

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||

Db 1 RSDHLSR 7

## RESULT 51

US-09-989-789-1883

; Sequence 1883, Application US/09989789

; Patent No. US20020063379A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1883

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-1883

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||

Db 1 RSDHLSR 7

## RESULT 52

US-09-989-789-1884

; Sequence 1884, Application US/09989789

; Patent No. US20020063379A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1884

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-1884

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||

Db 1 RSDHLSR 7

## RESULT 53

US-09-989-789-1951

; Sequence 1951, Application US/09989789

; Patent No. US20020063379A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1951

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-789-1951

US-09-989-789-1951

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 54

US-09-989-789-1952  
; Sequence 1952, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1952  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1952

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 55

US-09-989-789-1977  
; Sequence 1977, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1977  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-1977

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 56  
US-09-989-789-2618

; Sequence 2618, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 2618  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2618

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 57

US-09-989-789-2619  
; Sequence 2619, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 2619  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-2619

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 58

US-09-989-789-2663  
; Sequence 2663, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 2663  
; LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2663

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7
Db

```

```

RESULT 59
US-09-989-789-2741
; Sequence 2741, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2741
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2741

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7
Db

```

```

RESULT 60
US-09-989-789-2742
; Sequence 2742, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2742
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2742

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7
Db

```

```

RESULT 61
US-09-989-789-2788
; Sequence 2788, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2788
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2788

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7
Db

```

```

RESULT 62
US-09-989-789-2930
; Sequence 2930, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2930
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2930

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7
Db

```

```

RESULT 63
US-09-989-789-2936
; Sequence 2936, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25

```

```

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2936
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2936
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

```
RESULT 64
US-09-989-789-2937
; Sequence 2937, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2937
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2937
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

```
RESULT 65
US-09-989-789-2940
; Sequence 2940, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2940
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2940
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

```
RESULT 66
US-09-989-789-2941
; Sequence 2941, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2941
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2941
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

```
RESULT 67
US-09-989-789-2961
; Sequence 2961, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2961
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2961
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

```
RESULT 68
US-09-989-789-2965
; Sequence 2965, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
```

```
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2965
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2965

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
       |||||
Db      1 RSDHLSR 7

RESULT 69
US-09-989-789-2985
; Sequence 2985, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2985
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-2985

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
       |||||
Db      1 RSDHLSR 7

RESULT 70
US-09-989-789-3002
; Sequence 3002, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3002
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3002

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
       |||||
Db      1 RSDHLSR 7

RESULT 71
US-09-989-789-3116
; Sequence 3116, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3116
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3116

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
       |||||
Db      1 RSDHLSR 7

RESULT 72
US-09-989-789-3117
; Sequence 3117, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3117
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3117

Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
       |||||
Db      1 RSDHLSR 7

RESULT 73
US-09-989-789-3155
; Sequence 3155, Application US/09989789
```



```
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3155
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3155

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 74
US-09-989-789-3156
; Sequence 3156, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3156
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3156

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 75
US-09-989-789-3580
; Sequence 3580, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3580
; LENGTH: 7
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3580

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 76
US-09-989-789-3581
; Sequence 3581, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3581
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3581

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

RESULT 77
US-09-989-789-3608
; Sequence 3608, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3608
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3608

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7
```

```

RESULT 78
US-09-989-789-3623
; Sequence 3623, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3623
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3623

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 79
US-09-989-789-3624
; Sequence 3624, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3624
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3624

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 80
US-09-989-789-3625
; Sequence 3625, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085

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```

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3625
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3625

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 81
US-09-989-789-3636
; Sequence 3636, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3636
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3636

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 82
US-09-989-789-3637
; Sequence 3637, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3637
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3637

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 1 RSDHLR 7  
| | | | |  
Db 1 RSDHLR 7

## RESULT 83

US-09-989-789-3648  
; Sequence 3648, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3648  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3648

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
| | | | |  
Db 1 RSDHLR 7

## RESULT 84

US-09-989-789-3649  
; Sequence 3649, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3649  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3649

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
| | | | |  
Db 1 RSDHLR 7

## RESULT 85

US-09-989-789-3655  
; Sequence 3655, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; OTHER INFORMATION: TRIPLETS BY ZINC FINGERS

; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3655  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3655

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
| | | | |  
Db 1 RSDHLR 7

## RESULT 86

US-09-989-789-3656  
; Sequence 3656, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3656  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3656

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7  
| | | | |  
Db 1 RSDHLR 7

## RESULT 87

US-09-989-789-3658  
; Sequence 3658, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3658  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3658

Query Match 100.0%; Score 36; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 88  
 US-09-989-789-3672  
 ; Sequence 3672, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 3672  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-3672

Query Match 100.0%; Score 36; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 89  
 US-09-989-789-3673  
 ; Sequence 3673, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 3673  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-3673

Query Match 100.0%; Score 36; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 90  
 US-09-989-789-3707  
 ; Sequence 3707, Application US/09989789  
 ; Patent No. US20020063379A1

; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 3707  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-3707

Query Match 100.0%; Score 36; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 91  
 US-09-989-789-3708  
 ; Sequence 3708, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 3708  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-3708

Query Match 100.0%; Score 36; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
 |||||  
 Db 1 RSDHLSR 7

RESULT 92  
 US-09-989-789-3800  
 ; Sequence 3800, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 3800  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3800

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 93  
US-09-989-789-3802

; Sequence 3802, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3802  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3802

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 94  
US-09-989-789-3803

; Sequence 3803, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3803  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3803

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 95  
US-09-989-789-3814

; Sequence 3814, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3814  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3814

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 96  
US-09-989-789-3815

; Sequence 3815, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3815  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-3815

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 97

US-09-989-789-3816  
; Sequence 3816, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0



```

; SEQ ID NO 3816
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3816

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```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

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RESULT 98
US-09-989-789-3859
; Sequence 3859, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3859
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3859

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

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RESULT 99
US-09-989-789-3860
; Sequence 3860, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3860
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3860

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY 1 RSDHLSR 7

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Db 1 RSDHLSR 7

```

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RESULT 100
US-09-989-789-3881
; Sequence 3881, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3881
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3881

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

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RESULT 101
US-09-989-789-3882
; Sequence 3882, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3882
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3882

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 9; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 102
US-09-989-789-3890
; Sequence 3890, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2

```

```
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3890
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-789-3890
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db       1 RSDHLR 7
```

```
RESULT 103
US-09-989-789-3892
; Sequence 3892, Application US/09989789
; Patent No. US20020063379A1
```

```
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
```

```
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
```

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; FILE REFERENCE: 8325-0011.20 / S11-US2
```

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; CURRENT APPLICATION NUMBER: US/09/989,789
```

```
; CURRENT FILING DATE: 2002-03-25
```

```
; NUMBER OF SEQ ID NOS: 4085
```

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; SOFTWARE: PatentIn Ver. 2.0
```

```
; SEQ ID NO 3892
```

```
; LENGTH: 7
```

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; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
```

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; FEATURE:
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```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
```

```
US-09-989-789-3892
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db       1 RSDHLR 7
```

```
RESULT 104
US-09-989-789-3951
; Sequence 3951, Application US/09989789
; Patent No. US20020063379A1
```

```
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
```

```
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
```

```
; FILE REFERENCE: 8325-0011.20 / S11-US2
```

```
; CURRENT APPLICATION NUMBER: US/09/989,789
```

```
; CURRENT FILING DATE: 2002-03-25
```

```
; NUMBER OF SEQ ID NOS: 4085
```

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; SOFTWARE: PatentIn Ver. 2.0
```

```
; SEQ ID NO 3951
```

```
; LENGTH: 7
```

```
; TYPE: PRT
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; ORGANISM: Artificial Sequence
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; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
```

```
US-09-989-789-3951
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
```

```
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db       1 RSDHLR 7
```

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RESULT 105
US-09-989-789-3952
```

```
; Sequence 3952, Application US/09989789
```

```
; Patent No. US20020063379A1
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: LIU, Qiang
```

```
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
```

```
; FILE REFERENCE: 8325-0011.20 / S11-US2
```

```
; CURRENT APPLICATION NUMBER: US/09/989,789
```

```
; CURRENT FILING DATE: 2002-03-25
```

```
; NUMBER OF SEQ ID NOS: 4085
```

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; SOFTWARE: PatentIn Ver. 2.0
```

```
; SEQ ID NO 3952
```

```
; LENGTH: 7
```

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; TYPE: PRT
```

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; ORGANISM: Artificial Sequence
```

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; FEATURE:
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```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
```

```
US-09-989-789-3952
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db       1 RSDHLR 7
```

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RESULT 106
```

```
US-09-989-789-3999
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```
; Sequence 3999, Application US/09989789
```

```
; Patent No. US20020063379A1
```

```
; GENERAL INFORMATION:
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; APPLICANT: LIU, Qiang
```

```
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
```

```
; FILE REFERENCE: 8325-0011.20 / S11-US2
```

```
; CURRENT APPLICATION NUMBER: US/09/989,789
```

```
; CURRENT FILING DATE: 2002-03-25
```

```
; NUMBER OF SEQ ID NOS: 4085
```

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; SOFTWARE: PatentIn Ver. 2.0
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```
; SEQ ID NO 3999
```

```
; LENGTH: 7
```

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; TYPE: PRT
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; ORGANISM: Artificial Sequence
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; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
```

```
US-09-989-789-3999
```

```
Query Match          100.0%; Score 36; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db       1 RSDHLR 7
```

```
RESULT 107
```

```
US-09-989-789-4006
```

```
; Sequence 4006, Application US/09989789
```

```
; Patent No. US20020063379A1
```

```
; GENERAL INFORMATION:
```

APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4006  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-4006

Query Match 100.0%; Score 36; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 108  
US-09-844-508-5  
; Sequence 5, Application US/09844508  
; Patent No. US20020115215A1  
; GENERAL INFORMATION:  
; APPLICANT: WOLFFE, Alan P.  
; APPLICANT: COLLINGWOOD, Trevor  
; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE  
; FILE REFERENCE: 8325-0014 / S14-US1  
; CURRENT APPLICATION NUMBER: US/09/844,508  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: 60/200,590  
; PRIOR FILING DATE: 2000-04-28  
; PRIOR APPLICATION NUMBER: 60/228,523  
; PRIOR FILING DATE: 2000-08-28  
; NUMBER OF SEQ ID NOS: 49  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA  
US-09-844-508-5

Query Match 100.0%; Score 36; DB 10; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 109  
US-09-731-558-14  
; Sequence 14, Application US/09731558  
; Patent No. US20020146691A1  
; GENERAL INFORMATION:  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Liu, Qiang  
; APPLICANT: Rebar, Edward J.  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Methods of Using Randomized Libraries of Zinc Finger  
; TITLE OF INVENTION: Proteins for the Identification of Gene Function  
; FILE REFERENCE: 019496-003210US  
; CURRENT APPLICATION NUMBER: US/09/731,558

CURRENT FILING DATE: 2000-12-06  
; PRIOR APPLICATION NUMBER: US 09/456,100  
; PRIOR FILING DATE: 1999-12-06  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SBS3  
US-09-731-558-14

Query Match 100.0%; Score 36; DB 10; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 110  
US-09-846-033B-64  
; Sequence 64, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolffe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 64  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-64

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 111  
US-09-846-033B-68  
; Sequence 68, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi

```

; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 68
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
; US-09-846-033B-68

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 112
US-09-846-033B-91
; Sequence 91, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 91
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
; US-09-846-033B-91

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 113
US-09-846-033B-101
; Sequence 101, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 101
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
; US-09-846-033B-101

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 114
US-09-846-033B-102
; Sequence 102, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
; US-09-846-033B-102

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

## RESULT 115

US-09-846-033B-103  
; Sequence 103, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846, 033B  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733, 604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736, 083  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 103  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-103

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

## RESULT 116

US-09-846-033B-104  
; Sequence 104, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846, 033B  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733, 604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736, 083  
; NUMBER OF SEQ ID NOS: 252

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 104  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-104

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

## RESULT 117

US-09-846-033B-105  
; Sequence 105, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846, 033B  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733, 604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736, 083  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 105  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-105

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 1 RSDHLSR 7

## RESULT 118

US-09-846-033B-106  
; Sequence 106, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc



;; TITLE OF INVENTION: Finger Proteins  
;; FILE REFERENCE: 019496-005820US  
;; CURRENT APPLICATION NUMBER: US/09/846,033B  
;; CURRENT FILING DATE: 2001-04-30  
;; PRIOR APPLICATION NUMBER: US 09/733,604  
;; PRIOR FILING DATE: 2000-12-07  
;; PRIOR APPLICATION NUMBER: US 09/736,083  
;; PRIOR FILING DATE: 2000-12-12  
;; NUMBER OF SEQ ID NOS: 252  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 106  
;; LENGTH: 7  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: finger  
US-09-846-033B-106

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 119  
US-09-846-033B-109  
; Sequence 109, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 109  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-109

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 120  
US-09-846-033B-111  
; Sequence 111, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 111  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-111

;; APPLICANT: Rebar, Edward  
;; APPLICANT: Jamieson, Andrew  
;; APPLICANT: Liu, Qiang  
;; APPLICANT: Liu, Pei-Qi  
;; APPLICANT: Wolfe, Alan  
;; APPLICANT: Eisenberg, Stephen P.  
;; APPLICANT: Jarvis, Eric  
;; APPLICANT: Sangamo Biosciences, Inc.  
;; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
;; FILE REFERENCE: 019496-005820US  
;; CURRENT APPLICATION NUMBER: US/09/846,033B  
;; CURRENT FILING DATE: 2001-04-30  
;; PRIOR APPLICATION NUMBER: US 09/733,604  
;; PRIOR FILING DATE: 2000-12-07  
;; PRIOR APPLICATION NUMBER: US 09/736,083  
;; PRIOR FILING DATE: 2000-12-12  
;; NUMBER OF SEQ ID NOS: 252  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 111  
;; LENGTH: 7  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: finger  
US-09-846-033B-111

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 121  
US-09-846-033B-113  
; Sequence 113, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 113  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-113

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7

Db 1 RSDHLR 7

RESULT 122  
US-09-846-033B-114  
; Sequence 114, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 114  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-114

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 123  
US-09-846-033B-116  
; Sequence 116, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 116  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-116

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 124  
US-09-846-033B-154  
; Sequence 154, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 154  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-154

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 125  
US-09-846-033B-163  
; Sequence 163, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604

```

; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 163
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-163
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLR 7
Db 1 RSDHLR 7
```

```

RESULT 126
US-09-846-033B-169
; Sequence 169, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; TITLE OF INVENTION: Finger Proteins
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-169
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLR 7
Db 1 RSDHLR 7
```

```

RESULT 127
US-09-846-033B-172
; Sequence 172, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
```

```

; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; TITLE OF INVENTION: Finger Proteins
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 172
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-172
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLR 7
Db 1 RSDHLR 7
```

```

RESULT 128
US-09-846-033B-174
; Sequence 174, Application US/09846033B
; Publication No. US20030044404A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; TITLE OF INVENTION: Finger Proteins
; FILE REFERENCE: 019496-005820US
; CURRENT APPLICATION NUMBER: US/09/846,033B
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 174
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-09-846-033B-174
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLR 7
Db 1 RSDHLR 7
```

```
RESULT 129
```

US-09-846-033B-177  
; Sequence 177, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolffe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 177  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-09-846-033B-177

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 130  
US-09-846-033B-200  
; Sequence 200, Application US/09846033B  
; Publication No. US20030044404A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolffe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005820US  
; CURRENT APPLICATION NUMBER: US/09/846,033B  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 200  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: recognition helix  
US-09-846-033B-200

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 131  
US-09-990-186-229  
; Sequence 229, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 229  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-229

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 132  
US-09-990-186-230  
; Sequence 230, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 230  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-230

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 133  
US-09-990-186-234  
; Sequence 234, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:

```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 234
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-234

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 134
US-09-990-186-238
; Sequence 238, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 238
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-238

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 135
US-09-990-186-239
; Sequence 239, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 239
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-239

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 136
US-09-990-186-244
; Sequence 244, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 244
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-244

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 137
US-09-990-186-420
; Sequence 420, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 420
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
; US-09-990-186-420

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 138
```



```
US-09-990-186-425
; Sequence 425, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 425
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-425

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 139
US-09-990-186-426
; Sequence 426, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 426
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-426

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 140
US-09-990-186-428
; Sequence 428, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 428
```

```
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-428

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 141
US-09-990-186-434
; Sequence 434, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 434
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-434

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7

RESULT 142
US-09-990-186-832
; Sequence 832, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 832
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-832

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
DB 1 RSDHLSR 7
```

```
Db      1 RSDHLR 7

RESULT 143
US-09-990-186-840
; Sequence 840, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 840
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-840

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
Db      1 RSDHLR 7

RESULT 144
US-09-990-186-888
; Sequence 888, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 888
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-888

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
Db      1 RSDHLR 7

RESULT 145
US-09-990-186-1001
; Sequence 1001, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
Db      1 RSDHLR 7

; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1001
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1001

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
Db      1 RSDHLR 7

RESULT 146
US-09-990-186-1089
; Sequence 1089, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1089
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1089

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
Db      1 RSDHLR 7

RESULT 147
US-09-990-186-1090
; Sequence 1090, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1090
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1090

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLR 7
Db      1 RSDHLR 7
```

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 148

US-09-990-186-1091  
; Sequence 1091, Application US/09990186  
; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1091

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-1091

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 149

US-09-990-186-1094  
; Sequence 1094, Application US/09990186  
; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1094

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-1094

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 150

US-09-990-186-1138  
; Sequence 1138, Application US/09990186  
; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1138

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-1138

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 151

US-09-990-186-1139  
; Sequence 1139, Application US/09990186  
; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1139

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-1139

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 152

US-09-990-186-1178  
; Sequence 1178, Application US/09990186  
; Publication No. US20030068675A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.21 / S11-US3

; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1178

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-1178

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 153

US-09-990-186-1179  
; Sequence 1179, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1179  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1179

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 154

US-09-990-186-1199  
; Sequence 1199, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1199  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1199

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 155

US-09-990-186-1207

; Sequence 1207, Application US/09990186

; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1207  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1207

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 156

US-09-990-186-1219  
; Sequence 1219, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1219  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1219

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 157

US-09-990-186-1220  
; Sequence 1220, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1220  
; LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1220
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

## RESULT 158

```

US-09-990-186-1224
; Sequence 1224, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1224
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1224
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

## RESULT 159

```

US-09-990-186-1225
; Sequence 1225, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1225
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1225
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

## RESULT 160

```

US-09-990-186-1234
; Sequence 1234, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1234
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1234
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

## RESULT 161

```

US-09-990-186-1260
; Sequence 1260, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1260
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1260
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

## RESULT 162

```

US-09-990-186-1471
; Sequence 1471, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
```



```
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1471
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1471
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

```
RESULT 163
US-09-990-186-1529
```

```
; Sequence 1529, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1529
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1529
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

```
RESULT 164
US-09-990-186-1530
; Sequence 1530, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1530
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1530
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

```
RESULT 165
US-09-990-186-1541
```

```
; Sequence 1541, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1541
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1541
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

```
RESULT 166
US-09-990-186-1546
```

```
; Sequence 1546, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1546
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1546
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

```
RESULT 167
US-09-990-186-1565
```

```
; Sequence 1565, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
```

```

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1565
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1565

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 168
US-09-990-186-1575
; Sequence 1575, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1575
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1575

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 169
US-09-990-186-1603
; Sequence 1603, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1603
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1603
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 170
US-09-990-186-1714
; Sequence 1714, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1714
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1714

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 171
US-09-990-186-1715
; Sequence 1715, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1715
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1715

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 172
US-09-990-186-1716
; Sequence 1716, Application US/09990186
```

```

; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1716
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1716

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 173
US-09-990-186-1717
; Sequence 1717, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1717
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1717

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 174
US-09-990-186-1718
; Sequence 1718, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1718
; LENGTH: 7
; TYPE: PRT

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1718

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 175
US-09-990-186-1870
; Sequence 1870, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1870
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1870

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 176
US-09-990-186-1872
; Sequence 1872, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1872
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1872

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```
RESULT 177
US-09-990-186-1878
; Sequence 1878, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1878
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1878

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 178
US-09-990-186-1881
; Sequence 1881, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1881
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1881

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 179
US-09-990-186-1882
; Sequence 1882, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
```

```
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1882
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1882

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```
RESULT 180
US-09-990-186-1883
; Sequence 1883, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1883
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1883
```

```
Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```
RESULT 181
US-09-990-186-1884
; Sequence 1884, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1884
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-1884

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 182

US-09-990-186-1951  
; Sequence 1951, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1951  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1951

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 183

US-09-990-186-1952  
; Sequence 1952, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1952  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1952

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 184

US-09-990-186-1977  
; Sequence 1977, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1977  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-1977

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 185

US-09-990-186-2618  
; Sequence 2618, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 2618  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2618

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 186

US-09-990-186-2619  
; Sequence 2619, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 2619  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2619



Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

RESULT 187  
US-09-990-186-2663  
; Sequence 2663, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2663  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2663

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

RESULT 188  
US-09-990-186-2741  
; Sequence 2741, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2741  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2741

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

RESULT 189  
US-09-990-186-2742  
; Sequence 2742, Application US/09990186  
; Publication No. US20030068675A1

; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2742  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2742

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

RESULT 190  
US-09-990-186-2788  
; Sequence 2788, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2788  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2788

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

RESULT 191  
US-09-990-186-2930  
; Sequence 2930, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2930  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2930

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 192  
US-09-990-186-2936  
; Sequence 2936, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2936  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2936

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 193  
US-09-990-186-2937  
; Sequence 2937, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2937  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2937

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 194  
US-09-990-186-2940  
; Sequence 2940, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2940  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2940

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 195  
US-09-990-186-2941  
; Sequence 2941, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2941  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-2941

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 196  
US-09-990-186-2961  
; Sequence 2961, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0

```
; SEQ ID NO 2961
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2961

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 197
US-09-990-186-2965
; Sequence 2965, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2965
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2965

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 198
US-09-990-186-2985
; Sequence 2985, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2985
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-2985

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
```

```
Db 1 RSDHLSR 7

RESULT 199
US-09-990-186-3002
; Sequence 3002, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3002
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3002

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 200
US-09-990-186-3116
; Sequence 3116, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3116
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3116

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 201
US-09-990-186-3117
; Sequence 3117, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
```

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; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3117
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3117

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 202
US-09-990-186-3155
; Sequence 3155, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3155
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3155

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 203
US-09-990-186-3156
; Sequence 3156, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3156
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3156

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7
```

```
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 204
US-09-990-186-3580
; Sequence 3580, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3580
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3580

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 205
US-09-990-186-3581
; Sequence 3581, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3581
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3581

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

RESULT 206
US-09-990-186-3608
; Sequence 3608, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
```

```

; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3608
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3608

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 207
US-09-990-186-3623
; Sequence 3623, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3623
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3623

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 208
US-09-990-186-3624
; Sequence 3624, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3624
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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```

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3624

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 209
US-09-990-186-3625
; Sequence 3625, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3625
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3625

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 210
US-09-990-186-3636
; Sequence 3636, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3636
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3636

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 211
```



US-09-990-186-3637  
; Sequence 3637, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3637  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3637

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 212

US-09-990-186-3648  
; Sequence 3648, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3648  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3648

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 213

US-09-990-186-3649  
; Sequence 3649, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3649

; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3649

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 214

US-09-990-186-3655  
; Sequence 3655, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3655  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3655

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 215

US-09-990-186-3656  
; Sequence 3656, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3656  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3656

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |

Db 1 RSDHLSR 7

## RESULT 216

US-09-990-186-3658  
; Sequence 3658, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3658  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3658

## Query Match

100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7

Db 1 RSDHLSR 7

## RESULT 217

US-09-990-186-3672  
; Sequence 3672, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3672  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3672

## Query Match

100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7

Db 1 RSDHLSR 7

## RESULT 218

US-09-990-186-3673  
; Sequence 3673, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186

; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3673  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3673

Query Match  
100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7

Db 1 RSDHLSR 7

## RESULT 219

US-09-990-186-3707  
; Sequence 3707, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3707  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3707

## Query Match

100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7

Db 1 RSDHLSR 7

## RESULT 220

US-09-990-186-3708  
; Sequence 3708, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3708  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3708

Query Match  
100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

## RESULT 221

US-09-990-186-3800  
; Sequence 3800, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LITU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3800  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3800

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

## RESULT 222

US-09-990-186-3802  
; Sequence 3802, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LITU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3802  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3802

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

## RESULT 223

US-09-990-186-3803  
; Sequence 3803, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LITU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3803  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3803

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

## RESULT 224

US-09-990-186-3814  
; Sequence 3814, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LITU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3814  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3814

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||||  
Db 1 RSDHLSR 7

## RESULT 225

US-09-990-186-3815  
; Sequence 3815, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LITU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3815  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-990-186-3815

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 226

US-09-990-186-3816

; Sequence 3816, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3816  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3816

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 227

US-09-990-186-3859

; Sequence 3859, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3859  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3859

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 228  
US-09-990-186-3860

; Sequence 3860, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3860  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3860

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 229

US-09-990-186-3881

; Sequence 3881, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3881  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-990-186-3881

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 230

US-09-990-186-3882

; Sequence 3882, Application US/09990186  
; Publication No. US20030068675A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.21 / S11-US3  
; CURRENT APPLICATION NUMBER: US/09/990,186  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3882  
; LENGTH: 7

```
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3882
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

RESULT 231

```
US-09-990-186-3890
; Sequence 3890, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3890
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3890
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

RESULT 232

```
US-09-990-186-3892
; Sequence 3892, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3892
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3892
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

RESULT 233

```
US-09-990-186-3951
; Sequence 3951, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3951
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3951
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

RESULT 234

```
US-09-990-186-3952
; Sequence 3952, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3952
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3952
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
    |||||
Db 1 RSDHLSR 7
```

RESULT 235

```
US-09-990-186-3999
; Sequence 3999, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
```



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; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3999
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-3999

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 236
US-09-990-186-4006
; Sequence 4006, Application US/099990186
; Publication No. US2003006875A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 4006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-990-186-4006

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 237
US-09-989-994-229
; Sequence 229, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 229
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-229

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 238
US-09-989-994-230
; Sequence 230, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 230
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-230

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 239
US-09-989-994-234
; Sequence 234, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 234
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-234

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 240
US-09-989-994-238
; Sequence 238, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
```

```

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 238
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-238

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 241
US-09-989-994-239
; Sequence 239, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 239
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-239

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 242
US-09-989-994-244
; Sequence 244, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 244
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-244
```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 243
US-09-989-994-420
; Sequence 420, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 420
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-420

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 244
US-09-989-994-425
; Sequence 425, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 425
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-425

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 245
US-09-989-994-426
; Sequence 426, Application US/09989994
```

```
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 426
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-426

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 246
US-09-989-994-428
; Sequence 428, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 428
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-428

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 247
US-09-989-994-434
; Sequence 434, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 434
; LENGTH: 7
; TYPE: PRT

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-434

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 248
US-09-989-994-832
; Sequence 832, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 832
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-832

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7

RESULT 249
US-09-989-994-840
; Sequence 840, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 840
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-840

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7
Db 1 RSDHLR 7
```

```
RESULT 250
US-09-989-994-888
; Sequence 888, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 888
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-888

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 251
US-09-989-994-1001
; Sequence 1001, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1001
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1001

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 252
US-09-989-994-1089
; Sequence 1089, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1089
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1089

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1089
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1089

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 253
US-09-989-994-1090
; Sequence 1090, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1090
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1090

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 254
US-09-989-994-1091
; Sequence 1091, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1091
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1091

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 255

US-09-989-994-1094  
; Sequence 1094, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1094  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1094

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 256

US-09-989-994-1138  
; Sequence 1138, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1138  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1138

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 257

US-09-989-994-1139  
; Sequence 1139, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1139  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1139

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 258

US-09-989-994-1178  
; Sequence 1178, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1178  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1178

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

## RESULT 259

US-09-989-994-1179  
; Sequence 1179, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1179  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1179



Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 260

US-09-989-994-1199  
; Sequence 1199, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1199  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1199

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 261

US-09-989-994-1207  
; Sequence 1207, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1207  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1207

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 262

US-09-989-994-1219  
; Sequence 1219, Application US/09989994  
; Publication No. US20030104526A1

GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1219  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1219

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 263

US-09-989-994-1220  
; Sequence 1220, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1220  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1220

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 264

US-09-989-994-1224  
; Sequence 1224, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1224  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1224

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 264

US-09-989-994-1224  
; Sequence 1224, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1224  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1224

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1224

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 265

US-09-989-994-1225  
; Sequence 1225, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
FILE REFERENCE: 8325-0011.20 / S11-US2  
CURRENT APPLICATION NUMBER: US/09/989,994  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1225  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1225

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 266

US-09-989-994-1234  
; Sequence 1234, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
FILE REFERENCE: 8325-0011.20 / S11-US2  
CURRENT APPLICATION NUMBER: US/09/989,994  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1234  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1234

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 267

US-09-989-994-1260  
; Sequence 1260, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
FILE REFERENCE: 8325-0011.20 / S11-US2  
CURRENT APPLICATION NUMBER: US/09/989,994  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1260  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1260

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 268

US-09-989-994-1471  
; Sequence 1471, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
FILE REFERENCE: 8325-0011.20 / S11-US2  
CURRENT APPLICATION NUMBER: US/09/989,994  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1471  
LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-1471

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 269

US-09-989-994-1529  
; Sequence 1529, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:

APPLICANT: LIU, Qiang  
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
FILE REFERENCE: 8325-0011.20 / S11-US2  
CURRENT APPLICATION NUMBER: US/09/989,994  
CURRENT FILING DATE: 2001-11-20  
NUMBER OF SEQ ID NOS: 4085  
SOFTWARE: PatentIn Ver. 2.0

```

; SEQ ID NO 1529
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1529

```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 270
US-09-989-994-1530
; Sequence 1530, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1530
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1530

```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 271
US-09-989-994-1541
; Sequence 1541, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1541
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1541

```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7

```

```

Db      1 RSDHLSR 7

```

```

RESULT 272
US-09-989-994-1546
; Sequence 1546, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1546
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1546

```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 273
US-09-989-994-1565
; Sequence 1565, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1565
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1565

```

```

Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
Db      1 RSDHLSR 7

```

```

RESULT 274
US-09-989-994-1575
; Sequence 1575, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2

```

```

; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1575
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1575

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7

```

```

RESULT 275
US-09-989-994-1603
; Sequence 1603, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1603
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1603

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7

```

```

RESULT 276
US-09-989-994-1714
; Sequence 1714, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1714
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1714

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;

```

```

Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7

```

```

RESULT 277
US-09-989-994-1715
; Sequence 1715, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1715
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1715

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7

```

```

RESULT 278
US-09-989-994-1716
; Sequence 1716, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1716
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1716

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLSR 7
        |||||
        1 RSDHLSR 7

```

```

RESULT 279
US-09-989-994-1717
; Sequence 1717, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:

```

```
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1717
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1717

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 280
US-09-989-994-1718
; Sequence 1718, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1718
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1718

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 281
US-09-989-994-1870
; Sequence 1870, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1870
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

```
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1870

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 282
US-09-989-994-1872
; Sequence 1872, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1872
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1872

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 283
US-09-989-994-1878
; Sequence 1878, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1878
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1878

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 284
```



```

US-09-989-994-1881
; Sequence 1881, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1881
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1881

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 285
US-09-989-994-1882
; Sequence 1882, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1882
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1882

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 286
US-09-989-994-1883
; Sequence 1883, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1883

```

```

; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1883

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 287
US-09-989-994-1884
; Sequence 1884, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1884
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1884

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 288
US-09-989-994-1951
; Sequence 1951, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1951
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1951

```

```

Query Match      100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7

```

```
DB      1 RSDHLSR 7

RESULT 289
US-09-989-994-1952
; Sequence 1952, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1952
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1952

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
DB      1 RSDHLSR 7

RESULT 290
US-09-989-994-1977
; Sequence 1977, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1977
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-1977

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
DB      1 RSDHLSR 7

RESULT 291
US-09-989-994-2618
; Sequence 2618, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
DB      1 RSDHLSR 7

; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2618
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2618

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
DB      1 RSDHLSR 7

RESULT 292
US-09-989-994-2619
; Sequence 2619, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2619
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2619

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
DB      1 RSDHLSR 7

RESULT 293
US-09-989-994-2663
; Sequence 2663, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIT, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2663
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2663

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
DB      1 RSDHLSR 7
```

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||

Db 1 RSDHLSR 7

## RESULT 294

US-09-989-994-2741

; Sequence 2741, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIT, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 2741

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-2741

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||

Db 1 RSDHLSR 7

## RESULT 295

US-09-989-994-2742

; Sequence 2742, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIT, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 2742

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-2742

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||

Db 1 RSDHLSR 7

## RESULT 296

US-09-989-994-2788

; Sequence 2788, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIT, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 2788

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-2788

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||

Db 1 RSDHLSR 7

## RESULT 297

US-09-989-994-2930

; Sequence 2930, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIT, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 2930

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-2930

Query Match 100.0%; Score 36; DB 11; Length 7;

Best Local Similarity 100.0%; Pred. No. 7e+05;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||

Db 1 RSDHLSR 7

## RESULT 298

US-09-989-994-2936

; Sequence 2936, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIT, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 2936

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-2936

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 299

US-09-989-994-2937  
; Sequence 2937, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2937  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2937

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 300

US-09-989-994-2940  
; Sequence 2940, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2940  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2940

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 301

US-09-989-994-2941

; Sequence 2941, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2941  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2941

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 302

US-09-989-994-2961  
; Sequence 2961, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2961  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-2961

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 303

US-09-989-994-2965  
; Sequence 2965, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2965  
; LENGTH: 7

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2965

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 304
US-09-989-994-2985
; Sequence 2985, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2985
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-2985

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 305
US-09-989-994-3002
; Sequence 3002, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3002
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3002

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7
```

```

RESULT 306
US-09-989-994-3116
; Sequence 3116, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3116
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3116

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 307
US-09-989-994-3117
; Sequence 3117, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3117
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3117

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 308
US-09-989-994-3155
; Sequence 3155, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
```



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; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3155
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3155

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

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RESULT 309
US-09-989-994-3156
; Sequence 3156, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3156
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3156

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

```

```

RESULT 310
US-09-989-994-3580
; Sequence 3580, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3580
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3580

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

```

```

RESULT 310
US-09-989-994-3580
; Sequence 3580, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3580
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3580

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

```

```

RESULT 311
US-09-989-994-3581
; Sequence 3581, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3581
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3581

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

```

```

RESULT 312
US-09-989-994-3608
; Sequence 3608, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3608
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3608

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

```

```

RESULT 312
US-09-989-994-3608
; Sequence 3608, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3608
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3608

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7

```

```

RESULT 313
US-09-989-994-3623
; Sequence 3623, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
US-09-989-994-3623

```

```

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3623
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3623

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 314
US-09-989-994-3624
; Sequence 3624, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3624
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3624

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 315
US-09-989-994-3625
; Sequence 3625, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3625
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3625

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 316
US-09-989-994-3636
; Sequence 3636, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3636
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3636

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 317
US-09-989-994-3637
; Sequence 3637, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3637
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3637

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 318
US-09-989-994-3648
; Sequence 3648, Application US/09989994
```

```
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3648
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3648
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7
```

```
RESULT 319
US-09-989-994-3649
; Sequence 3649, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3649
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3649
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7
```

```
RESULT 320
US-09-989-994-3655
; Sequence 3655, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3655
; LENGTH: 7
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3655
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7
```

```
RESULT 321
US-09-989-994-3656
; Sequence 3656, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3656
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3656
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7
```

```
RESULT 322
US-09-989-994-3658
; Sequence 3658, Application US/099899994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3658
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3658
```

```
Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservativity 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 RSDHLSR 7
   |||||
Db 1 RSDHLSR 7
```

```
RESULT 323
US-09-989-994-3672
; Sequence 3672, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3672
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3672

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 324
US-09-989-994-3673
; Sequence 3673, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3673
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3673

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 325
US-09-989-994-3707
; Sequence 3707, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3707
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3707

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 326
US-09-989-994-3708
; Sequence 3708, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3708
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3708

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

RESULT 327
US-09-989-994-3800
; Sequence 3800, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3800
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-3800

Query Match
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

CY 1 RSDHLSR 7  
 Db 1 RSDHLSR 7

RESULT 328

US-09-989-994-3802  
 ; Sequence 3802, Application US/09989994  
 ; Publication No. US20030104526A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,994  
 ; CURRENT FILING DATE: 2001-11-20  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 3802  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-994-3802

Query Match 100.0%; Score 36; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 RSDHLSR 7  
 Db 1 RSDHLSR 7

RESULT 329

US-09-989-994-3803  
 ; Sequence 3803, Application US/09989994  
 ; Publication No. US20030104526A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,994  
 ; CURRENT FILING DATE: 2001-11-20  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 3803  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-994-3803

Query Match 100.0%; Score 36; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 RSDHLSR 7  
 Db 1 RSDHLSR 7

RESULT 330

US-09-989-994-3814  
 ; Sequence 3814, Application US/09989994  
 ; Publication No. US20030104526A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,994  
 ; CURRENT FILING DATE: 2001-11-20  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 3814  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-994-3814

FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,994  
 ; CURRENT FILING DATE: 2001-11-20  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 3814  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-994-3814

Query Match 100.0%; Score 36; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 RSDHLSR 7  
 Db 1 RSDHLSR 7

RESULT 331

US-09-989-994-3815  
 ; Sequence 3815, Application US/09989994  
 ; Publication No. US20030104526A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,994  
 ; CURRENT FILING DATE: 2001-11-20  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 3815  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-994-3815

Query Match 100.0%; Score 36; DB 11; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 7e+05;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 RSDHLSR 7  
 Db 1 RSDHLSR 7

RESULT 332

US-09-989-994-3816  
 ; Sequence 3816, Application US/09989994  
 ; Publication No. US20030104526A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,994  
 ; CURRENT FILING DATE: 2001-11-20  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 3816  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-994-3816



Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 333  
US-09-989-994-3859  
; Sequence 3859, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 3859  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3859

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 334  
US-09-989-994-3860  
; Sequence 3860, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 3860  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3860

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 335  
US-09-989-994-3881  
; Sequence 3881, Application US/09989994  
; Publication No. US20030104526A1

; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 3881  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3881

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 336  
US-09-989-994-3882  
; Sequence 3882, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 3882  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3882

Query Match 100.0%; Score 36; DB 11; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 1 RSDHLSR 7

RESULT 337  
US-09-989-994-3890  
; Sequence 3890, Application US/09989994  
; Publication No. US20030104526A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,994  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 3890  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-994-3890

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

RESULT 338  
US-09-989-994-3892

; Sequence 3892, Application US/09989994  
; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentln Ver. 2.0

; SEQ ID NO 3892

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3892

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

RESULT 339  
US-09-989-994-3951

; Sequence 3951, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentln Ver. 2.0

; SEQ ID NO 3951

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3951

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

RESULT 340

US-09-989-994-3952

; Sequence 3952, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentln Ver. 2.0

; SEQ ID NO 3952

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3952

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

RESULT 341

US-09-989-994-3999

; Sequence 3999, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentln Ver. 2.0

; SEQ ID NO 3999

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-3999

Query Match  
Best Local Similarity 100.0%; Score 36; DB 11; Length 7;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
1 RSDHLSR 7  
DB 1 RSDHLSR 7

RESULT 342

US-09-989-994-4006

; Sequence 4006, Application US/09989994

; Publication No. US20030104526A1

; GENERAL INFORMATION:

; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; FILE REFERENCE: 8325-0011.20 / S11-US2

; CURRENT APPLICATION NUMBER: US/09/989,994

; CURRENT FILING DATE: 2001-11-20

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: Patentln Ver. 2.0

; SEQ ID NO 4006

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: example ZFP

US-09-989-994-4006

```
; SEQ ID NO 4006
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP
US-09-989-994-4006
```

```
Query Match          100.0%; Score 36; DB 11; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

RESULT 343

```
US-10-245-415B-58
; Sequence 58, Application US/10245415B
; Publication No. US20030166141A1
; GENERAL INFORMATION:
; APPLICANT: Casey Christopher
; APPLICANT: Cox III, George N.
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Liu, Qiang
; APPLICANT: Rebar, Edward J.
; TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
; FILE REFERENCE: 8325-0002.22 / S2-US7
; CURRENT APPLICATION NUMBER: US/10/245,415B
; CURRENT FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 58
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: recognition helix
US-10-245-415B-58
```

```
Query Match          100.0%; Score 36; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

RESULT 344

```
US-10-412-105-44
; Sequence 44, Application US/10412105
; Publication No. US20030175790A1
; GENERAL INFORMATION:
; APPLICANT: Casey
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
; FILE REFERENCE: 8325-0010
; CURRENT APPLICATION NUMBER: US/10/412,105
; CURRENT FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: 09/779,233
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 44
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: recognition
US-10-412-105-44
```

```
Query Match          100.0%; Score 36; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

RESULT 345

```
US-10-412-109-44
; Sequence 44, Application US/10412109
; Publication No. US20030180713A1
; GENERAL INFORMATION:
; APPLICANT: Casey
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
; FILE REFERENCE: 8325-0010
; CURRENT APPLICATION NUMBER: US/10/412,109
; CURRENT FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: US/09/779,233
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 44
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: recognition
US-10-412-109-44
```

```
Query Match          100.0%; Score 36; DB 12; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      1 RSDHLR 7
```

RESULT 346

```
US-10-418-552-48
; Sequence 48, Application US/10418552
; Publication No. US20030233672A1
; GENERAL INFORMATION:
; APPLICANT: Li, Guofu
; APPLICANT: Liu, Qiang
; APPLICANT: JAMIESON, Andrew
; APPLICANT: REBAR, Edward
; APPLICANT: VAN EENENNAAM, Alison
; APPLICANT: VENKATRAMESH, Mylavatapu
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR REGULATION OF PLANT GAMMA-
; FILE REFERENCE: 8325-0029 (S29-US1)
; CURRENT APPLICATION NUMBER: US/10/418,552
; CURRENT FILING DATE: 2003-04-17
; PRIOR APPLICATION NUMBER: 60/373,488
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 60/385,992
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/442,470
; PRIOR FILING DATE: 2003-01-24
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: Patentln version 3.2
; SEQ ID NO 48
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: AGMT7 F3
US-10-418-552-48
```

Query Match 100.0%; Score 36; DB 12; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 347  
US-10-006-069A-64

; Sequence 64, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; CURRENT FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 64  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
; US-10-006-069A-64

Query Match 100.0%; Score 36; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 348  
US-10-006-069A-68

; Sequence 68, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; CURRENT FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07

; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 68  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
; US-10-006-069A-68

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 349  
US-10-006-069A-91

; Sequence 91, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; CURRENT FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 91  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
; US-10-006-069A-91

Query Match 100.0%; Score 36; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 1 RSDHLSR 7

RESULT 350  
US-10-006-069A-101

; Sequence 101, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew

```
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolffe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 101
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-101
```

```
Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLR 7
Db      1 RSDHLR 7
```

```
RESULT 351
US-10-006-069A-102
Sequence 102, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolffe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 102
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-102
```

```
Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLR 7
Db      1 RSDHLR 7
```

```
RESULT 352
US-10-006-069A-103
Sequence 103, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolffe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 103
LENGTH: 7
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: finger
US-10-006-069A-103
```

```
Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLR 7
Db      1 RSDHLR 7
```

```
RESULT 353
US-10-006-069A-104
Sequence 104, Application US/10006069A
Publication No. US20030021776A1
GENERAL INFORMATION:
APPLICANT: Rebar, Edward
APPLICANT: Jamieson, Andrew
APPLICANT: Liu, Qiang
APPLICANT: Liu, Pei-Qi
APPLICANT: Wolffe, Alan
APPLICANT: Eisenberg, Stephen P.
APPLICANT: Jarvis, Eric
APPLICANT: Sangamo Biosciences, Inc.
TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
FILE REFERENCE: 019496-005830US
CURRENT APPLICATION NUMBER: US/10/006,069A
CURRENT FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: US 09/733,604
PRIOR FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 09/736,083
PRIOR FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: US 09/846,033
PRIOR FILING DATE: 2001-04-30
```



```
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 104
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-104
```

```
Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db       1 RSDHLSR 7
```

```
RESULT 354
US-10-006-069A-105
; Sequence 105, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; TITLE OF INVENTION: Finger Proteins
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 105
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-105
```

```
Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db       1 RSDHLSR 7
```

```
RESULT 355
US-10-006-069A-106
; Sequence 106, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
```

```
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; TITLE OF INVENTION: Finger Proteins
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 106
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-106
```

```
Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db       1 RSDHLSR 7
```

```
RESULT 356
US-10-006-069A-109
; Sequence 109, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; TITLE OF INVENTION: Finger Proteins
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 109
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-109
```

```
Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 RSDHLSR 7
        |||||
Db       1 RSDHLSR 7
```

```
RESULT 357
US-10-006-069A-111
; Sequence 111, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 111
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-111

Query Match          100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
Db      1 RSDHLSR 7

RESULT 358
US-10-006-069A-113
; Sequence 113, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 7
```

```
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-113

Query Match          100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
Db      1 RSDHLSR 7

RESULT 359
US-10-006-069A-114
; Sequence 114, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 114
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-114

Query Match          100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
Db      1 RSDHLSR 7

RESULT 360
US-10-006-069A-116
; Sequence 116, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 116
; LENGTH: 7
```

```

; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 116
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-116

```

```

Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLR 7
      |||||
Db      1 RSDHLR 7

```

```

RESULT 361
US-10-006-069A-154
; Sequence 154, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US/10/006,069A
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 154
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-154

```

```

Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLR 7
      |||||
Db      1 RSDHLR 7

```

```

RESULT 362
US-10-006-069A-163

```

```

; Sequence 163, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US/10/006,069A
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 163
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger
US-10-006-069A-163

```

```

Query Match      100.0%; Score 36; DB 15; Length 7;
Best Local Similarity 100.0%; Pred. No. 7e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 RSDHLR 7
      |||||
Db      1 RSDHLR 7

```

```

RESULT 363
US-10-006-069A-169
; Sequence 169, Application US/10006069A
; Publication No. US20030021776A1
; GENERAL INFORMATION:
; APPLICANT: Rebar, Edward
; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US/10/006,069A
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 169
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: finger

```

US-10-006-069A-169

Query Match 100.0%; Score 36; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 364

US-10-006-069A-172  
; Sequence 172, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 172  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-10-006-069A-172

Query Match 100.0%; Score 36; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 365

US-10-006-069A-174  
; Sequence 174, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604

; PRIOR FILING DATE: 2000-12-07

; PRIOR APPLICATION NUMBER: US 09/736,083

; PRIOR FILING DATE: 2000-12-12

; PRIOR APPLICATION NUMBER: US 09/846,033

; PRIOR FILING DATE: 2001-04-30

; NUMBER OF SEQ ID NOS: 252

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 174

; LENGTH: 7

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: finger

US-10-006-069A-174

Query Match 100.0%; Score 36; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 366

US-10-006-069A-177  
; Sequence 177, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward  
; APPLICANT: Jamieson, Andrew  
; APPLICANT: Liu, Qiang  
; APPLICANT: Liu, Pei-Qi  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Angiogenesis With Zinc  
; FILE REFERENCE: 019496-005830US  
; CURRENT APPLICATION NUMBER: US/10/006,069A  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 09/733,604  
; PRIOR FILING DATE: 2000-12-07  
; PRIOR APPLICATION NUMBER: US 09/736,083  
; PRIOR FILING DATE: 2000-12-12  
; PRIOR APPLICATION NUMBER: US 09/846,033  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 252  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 177  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: finger  
US-10-006-069A-177

Query Match 100.0%; Score 36; DB 15; Length 7;  
Best Local Similarity 100.0%; Pred. No. 7e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7

Db 1 RSDHLR 7

RESULT 367

US-10-006-069A-200  
; Sequence 200, Application US/10006069A  
; Publication No. US20030021776A1  
; GENERAL INFORMATION:  
; APPLICANT: Rebar, Edward

```

; APPLICANT: Jamieson, Andrew
; APPLICANT: Liu, Qiang
; APPLICANT: Liu, Pei-Qi
; APPLICANT: Wolfe, Alan
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Angiogenesis with Zinc
; FILE REFERENCE: 019496-005830US
; CURRENT APPLICATION NUMBER: US/10/006,069A
; CURRENT FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: US 09/733,604
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/736,083
; PRIOR FILING DATE: 2000-12-12
; PRIOR APPLICATION NUMBER: US 09/846,033
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 252
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 200
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: recognition helix
US-10-006-069A-200

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 368
US-10-055-713-62
; Sequence 62, Application US/10055713
; Publication No. US2003004957A1
; GENERAL INFORMATION:
; APPLICANT: JAMIESON, Andrew
; APPLICANT: LI, Guofu
; TITLE OF INVENTION: ZINC FINGER PROTEINS FOR DNA BINDING AND GENE
; FILE REFERENCE: 8325-0026 / S26-US1
; CURRENT APPLICATION NUMBER: US/10/055,713
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: 60/263,445
; PRIOR FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: 60/290,716
; PRIOR FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 62
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ZFP 7 F3 recognition helix
US-10-055-713-62

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

RESULT 369

```

US-10-084-826-5
; Sequence 5, Application US/10084826
; Publication No. US20030049649A1
; GENERAL INFORMATION:
; APPLICANT: WOLFE, Alan P.
; APPLICANT: COLLINGWOOD, Trevor
; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
; FILE REFERENCE: 8325-0014 / S14-US1
; CURRENT APPLICATION NUMBER: US/10/084,826
; CURRENT FILING DATE: 2002-02-24
; PRIOR APPLICATION NUMBER: 09/844,508
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: 60/228,523
; PRIOR FILING DATE: 2000-08-28
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Veg 1 AA
US-10-084-826-5

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 370
US-10-055-711-66
; Sequence 66, Application US/10055711
; Publication No. US20030108880A1
; GENERAL INFORMATION:
; APPLICANT: REBAR, Edward
; APPLICANT: JAMIESON, Andrew
; TITLE OF INVENTION: MODIFIED ZINC FINGER BINDING PROTEINS
; FILE REFERENCE: 8325-0025
; CURRENT APPLICATION NUMBER: US/10/055,711
; CURRENT FILING DATE: 2002-09-10
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ZFP #7 F3
US-10-055-711-66

```

```

Query Match
Best Local Similarity 100.0%; Score 36; DB 15; Length 7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 RSDHLSR 7
Db 1 RSDHLSR 7

```

```

RESULT 371
US-09-779-233-3
; Sequence 3, Application US/09779233
; Patent No. US20020045158A1
; GENERAL INFORMATION:
; APPLICANT: Casey, Casey
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
; FILE REFERENCE: 8325-0010
; CURRENT APPLICATION NUMBER: US/09/779,233

```



```
; CURRENT FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF1
US-09-779-233-3
```

```
Query Match          100.0%; Score 36; DB 9; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
        |||||
Db       81 RSDHLSR 87
```

```
RESULT 372
US-09-844-508-11
; Sequence 11, Application US/09844508
; Patent No. US20020115215A1
; GENERAL INFORMATION:
; APPLICANT: WOLFFE, Alan P.
; APPLICANT: COLLINGWOOD, Trevor
; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
; FILE REFERENCE: 8325-0014 / S14-US1
; CURRENT APPLICATION NUMBER: US/09/844,508
; CURRENT FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: 60/200,590
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/228,523
; PRIOR FILING DATE: 2000-08-28
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Veg1 amino
; OTHER INFORMATION: acid sequence
US-09-844-508-11
```

```
Query Match          100.0%; Score 36; DB 10; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
        |||||
Db       81 RSDHLSR 87
```

```
RESULT 373
US-09-942-087A-15
; Sequence 15, Application US/09942087A
; Patent No. US20020160940A1
; GENERAL INFORMATION:
; APPLICANT: Casey Christopher
; APPLICANT: Wolffe, Alan
; APPLICANT: Urmov, Pyodor
; APPLICANT: Lai, Albert
; APPLICANT: Snowden, Andrew
; APPLICANT: Tan, Siyuan
; APPLICANT: Gregory, Philip
; TITLE OF INVENTION: MODULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
; FILE REFERENCE: 8325-0002.21 / S2-US5
; CURRENT APPLICATION NUMBER: US/09/942,087A
; CURRENT FILING DATE: 2001-08-28
; PRIOR APPLICATION NUMBER: 09/229,037
; PRIOR FILING DATE: 1999-01-12
```

```
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: VEGF1 ZFP
; OTHER INFORMATION: construct targeting upstream 9-base pair target
; OTHER INFORMATION: site in VEGF promoter
US-09-942-087A-15
```

```
Query Match          100.0%; Score 36; DB 10; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
        |||||
Db       81 RSDHLSR 87
```

```
RESULT 374
US-09-897-844-15
; Sequence 15, Application US/09897844
; Publication No. US20030087817A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George No. US20030087817A1Albert
; APPLICANT: Casey Christopher
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Jarvis, Eric Edward
; APPLICANT: Spratt, Sharon Kaye
; APPLICANT: Sangamo Biosciences, Inc.
; TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using
; FILE REFERENCE: 019496-002200US
; CURRENT APPLICATION NUMBER: US/09/897,844
; CURRENT FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: 09/229,037
; PRIOR FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: VEGF1 ZFP
; OTHER INFORMATION: construct targeting upstream 9-base pair target
; OTHER INFORMATION: site in VEGF promoter
US-09-897-844-15
```

```
Query Match          100.0%; Score 36; DB 11; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
        |||||
Db       81 RSDHLSR 87
```

```
RESULT 375
US-09-911-261A-4
; Sequence 4, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
```

```
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-4
```

```
Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
         |||||
Db       81 RSDHLSR 87
```

## RESULT 376

```
US-09-911-261A-5
; Sequence 5, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-5
```

```
Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
         |||||
Db       84 RSDHLSR 90
```

## RESULT 377

```
US-09-911-261A-6
; Sequence 6, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-6
```

```
Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
```

```
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
         |||||
Db       84 RSDHLSR 90
```

## RESULT 378

```
US-09-911-261A-7
; Sequence 7, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-7
```

```
Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
         |||||
Db       84 RSDHLSR 90
```

## RESULT 379

```
US-09-911-261A-8
; Sequence 8, Application US/09911261A
; Publication No. US20030134350A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/09/911,261A
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-09-911-261A-8
```

```
Query Match      100.0%; Score 36; DB 12; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLSR 7
         |||||
Db       84 RSDHLSR 90
```

## RESULT 380

```
US-09-911-261A-9
; Sequence 9, Application US/09911261A
; Publication No. US20030134350A1
```

GENERAL INFORMATION:  
; APPLICANT: Sera, Takashi  
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
; FILE REFERENCE: 109845.135  
; CURRENT APPLICATION NUMBER: US/09/911,261A  
; CURRENT FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: US 60/220,060  
; PRIOR FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 9  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Zinc finger protein  
US-09-911-261A-9

Query Match 100.0%; Score 36; DB 12; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 84 RSDHLSR 90

RESULT 381  
US-09-911-261A-10  
; Sequence 10, Application US/09911261A  
; Publication No. US20030134350A1  
; GENERAL INFORMATION:  
; APPLICANT: Sera, Takashi  
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
; FILE REFERENCE: 109845.135  
; CURRENT APPLICATION NUMBER: US/09/911,261A  
; CURRENT FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: US 60/220,060  
; PRIOR FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 10  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Zinc finger protein  
US-09-911-261A-10

Query Match 100.0%; Score 36; DB 12; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 84 RSDHLSR 90

RESULT 382  
US-10-245-415B-15  
; Sequence 15, Application US/10245415B  
; Publication No. US20030166141A1  
; GENERAL INFORMATION:  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Cox III, George N.  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Liu, Qiang  
; APPLICANT: Rebar, Edward J.  
; TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS  
; TITLE OF INVENTION: USING ZINC FINGER PROTEINS  
; FILE REFERENCE: 8325-0002.22 / S2-US7  
; CURRENT APPLICATION NUMBER: US/10/245,415B  
; CURRENT FILING DATE: 2002-09-16

NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 15  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: VEGF1 ZFP  
; OTHER INFORMATION: construct targeting upstream 9-base pair target  
; OTHER INFORMATION: site in VEGF promoter  
US-10-245-415B-15

Query Match 100.0%; Score 36; DB 12; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 81 RSDHLSR 87

RESULT 383  
US-10-412-105-3  
; Sequence 3, Application US/10412105  
; Publication No. US20030175790A1  
; GENERAL INFORMATION:  
; APPLICANT: Case, Casey  
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY  
; FILE REFERENCE: 8325-0010  
; CURRENT APPLICATION NUMBER: US/10/412,105  
; CURRENT FILING DATE: 2003-04-10  
; PRIOR APPLICATION NUMBER: 09/779,233  
; PRIOR FILING DATE: 2001-02-08  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF1  
US-10-412-105-3

Query Match 100.0%; Score 36; DB 12; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 81 RSDHLSR 87

RESULT 384  
US-10-412-109-3  
; Sequence 3, Application US/10412109  
; Publication No. US20030180713A1  
; GENERAL INFORMATION:  
; APPLICANT: Case, Casey  
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY  
; FILE REFERENCE: 8325-0010  
; CURRENT APPLICATION NUMBER: US/10/412,109  
; CURRENT FILING DATE: 2003-04-10  
; PRIOR APPLICATION NUMBER: US/09/779,233  
; PRIOR FILING DATE: 2001-02-08  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF1  
US-10-412-109-3

Query Match 100.0%; Score 36; DB 12; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 81 RSDHLSR 87

## RESULT 385

US-10-084-826-11  
; Sequence 11, Application US/10084826  
; Publication No. US20030049649A1  
; GENERAL INFORMATION:  
; APPLICANT: WOLFFE, Alan P.  
; APPLICANT: COLLINGWOOD, Trevor  
; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE  
; FILE REFERENCE: 8325-0014 / 514-US1  
; CURRENT APPLICATION NUMBER: US/10/084,826  
; PRIOR FILING DATE: 2002-02-24  
; PRIOR APPLICATION NUMBER: 09/844,508  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: 60/228,523  
; NUMBER OF SEQ ID NOS: 49  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 11  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Veg1 amino  
US-10-084-826-11

Query Match 100.0%; Score 36; DB 15; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 81 RSDHLSR 87

## RESULT 386

US-10-057-408-4  
; Sequence 4, Application US/10057408  
; Publication No. US20030082561A1  
; GENERAL INFORMATION:  
; APPLICANT: Sera, Takashi  
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
; FILE REFERENCE: 109845.135  
; CURRENT APPLICATION NUMBER: US/10/057,408  
; PRIOR FILING DATE: 2002-01-23  
; PRIOR APPLICATION NUMBER: US 60/220,060  
; PRIOR FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Zinc finger protein  
US-10-057-408-4

Query Match 100.0%; Score 36; DB 15; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |

Db 81 RSDHLSR 87

## RESULT 387

US-10-057-408-5  
; Sequence 5, Application US/10057408  
; Publication No. US20030082561A1  
; GENERAL INFORMATION:  
; APPLICANT: Sera, Takashi  
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
; FILE REFERENCE: 109845.135  
; CURRENT APPLICATION NUMBER: US/10/057,408  
; PRIOR FILING DATE: 2002-01-23  
; PRIOR APPLICATION NUMBER: US 60/220,060  
; PRIOR FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 5  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Zinc finger protein  
US-10-057-408-5

Query Match 100.0%; Score 36; DB 15; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 84 RSDHLSR 90

## RESULT 388

US-10-057-408-6  
; Sequence 6, Application US/10057408  
; Publication No. US20030082561A1  
; GENERAL INFORMATION:  
; APPLICANT: Sera, Takashi  
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
; FILE REFERENCE: 109845.135  
; CURRENT APPLICATION NUMBER: US/10/057,408  
; PRIOR FILING DATE: 2002-01-23  
; PRIOR APPLICATION NUMBER: US 60/220,060  
; PRIOR FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 6  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Zinc finger protein  
US-10-057-408-6

Query Match 100.0%; Score 36; DB 15; Length 99;  
Best Local Similarity 100.0%; Pred. No. 5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
| | | | |  
Db 84 RSDHLSR 90

## RESULT 389

US-10-057-408-7  
; Sequence 7, Application US/10057408  
; Publication No. US20030082561A1  
; GENERAL INFORMATION:  
; APPLICANT: Sera, Takashi  
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
; FILE REFERENCE: 109845.135

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; CURRENT APPLICATION NUMBER: US/10/057,408
; CURRENT FILING DATE: 2002-01-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-10-057-408-7

Query Match      100.0%; Score 36; DB 15; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      84 RSDHLSR 90

RESULT 390
US-10-057-408-8
; Sequence 8, Application US/10057408
; Publication No. US20030082561A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/10/057,408
; CURRENT FILING DATE: 2002-01-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 8
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-10-057-408-8

Query Match      100.0%; Score 36; DB 15; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      84 RSDHLSR 90

RESULT 391
US-10-057-408-9
; Sequence 9, Application US/10057408
; Publication No. US20030082561A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/10/057,408
; CURRENT FILING DATE: 2002-01-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 9
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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```
; OTHER INFORMATION: Zinc finger protein
US-10-057-408-9

Query Match      100.0%; Score 36; DB 15; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      84 RSDHLSR 90

RESULT 392
US-10-057-408-10
; Sequence 10, Application US/10057408
; Publication No. US20030082561A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/10/057,408
; CURRENT FILING DATE: 2002-01-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 10
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Zinc finger protein
US-10-057-408-10

Query Match      100.0%; Score 36; DB 15; Length 99;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      84 RSDHLSR 90

RESULT 393
US-09-779-233-18
; Sequence 18, Application US/09779233
; Patent No. US20020045158A1
; GENERAL INFORMATION:
; APPLICANT: Case, Casey
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
; FILE REFERENCE: 8325-0010
; CURRENT APPLICATION NUMBER: US/09/779,233
; CURRENT FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 18
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF 3a/1
US-09-779-233-18

Query Match      100.0%; Score 36; DB 9; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RSDHLSR 7
        |||||
Db      178 RSDHLSR 184

RESULT 394
```



US-09-844-508-29

; Sequence 29, Application US/09844508  
; Patent No. US20020115215A1  
; GENERAL INFORMATION:  
; APPLICANT: WOLFE, Alan P.  
; APPLICANT: COLLINGWOOD, Trevor  
; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE  
; FILE REFERENCE: 8325-0014 / S14-US1  
; CURRENT APPLICATION NUMBER: US/09/844,508  
; CURRENT FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: 60/200,590  
; PRIOR FILING DATE: 2000-04-28  
; PRIOR APPLICATION NUMBER: 60/228,523  
; PRIOR FILING DATE: 2000-08-28  
; NUMBER OF SEQ ID NOS: 49  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 196  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Veg3a/1 amino  
US-09-844-508-29

Query Match 100.0%; Score 36; DB 10; Length 196;  
Best Local Similarity 100.0%; Pred. No. 10;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 178 RSDHLSR 184

RESULT 395

US-09-942-087A-30  
; Sequence 30, Application US/09942087A  
; Patent No. US20020160940A1  
; GENERAL INFORMATION:  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Wolfe, Alan  
; APPLICANT: Urnov, Fyodor  
; APPLICANT: Lai, Albert  
; APPLICANT: Snowden, Andrew  
; APPLICANT: Tan, Siyuan  
; APPLICANT: Gregory, Philip  
; TITLE OF INVENTION: MODULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS  
; FILE REFERENCE: 8325-0002.21 / S2-US5  
; CURRENT APPLICATION NUMBER: US/09/942,087A  
; CURRENT FILING DATE: 2001-08-28  
; PRIOR APPLICATION NUMBER: 09/229,037  
; PRIOR FILING DATE: 1999-01-12  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 30  
; LENGTH: 196  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:designed  
; OTHER INFORMATION: 6-finger ZFP VEGF3a/1 from KpnI to BamHI  
US-09-942-087A-30

Query Match 100.0%; Score 36; DB 10; Length 196;  
Best Local Similarity 100.0%; Pred. No. 10;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 178 RSDHLSR 184

RESULT 396

US-09-897-844-30

; Sequence 30, Application US/09897844  
; Publication No. US20030087817A1  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George No. US20030087817A1Albert  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric Edward  
; APPLICANT: Spratt, Sharon Kaye  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using  
; FILE REFERENCE: 019496-002200US  
; CURRENT APPLICATION NUMBER: US/09/897,844  
; CURRENT FILING DATE: 2001-07-02  
; PRIOR APPLICATION NUMBER: 09/229,037  
; PRIOR FILING DATE: 1999-01-12  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 30  
; LENGTH: 196  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:designed  
; OTHER INFORMATION: 6-finger ZFP VEGF3a/1 from KpnI to BamHI  
US-09-897-844-30

Query Match 100.0%; Score 36; DB 11; Length 196;  
Best Local Similarity 100.0%; Pred. No. 10;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 178 RSDHLSR 184

RESULT 397

US-09-911-261A-3  
; Sequence 3, Application US/09911261A  
; Publication No. US20030134350A1  
; GENERAL INFORMATION:  
; APPLICANT: Sera, Takashi  
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
; FILE REFERENCE: 109845.135  
; CURRENT APPLICATION NUMBER: US/09/911,261A  
; CURRENT FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: US 60/220,060  
; PRIOR FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 69  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 3  
; LENGTH: 196  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Zinc finger protein  
US-09-911-261A-3

Query Match 100.0%; Score 36; DB 12; Length 196;  
Best Local Similarity 100.0%; Pred. No. 10;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RSDHLSR 7  
Db 178 RSDHLSR 184

RESULT 398

US-10-245-415B-30  
; Sequence 30, Application US/10245415B  
; Publication No. US20030166141A1  
; GENERAL INFORMATION:

```
; APPLICANT: Casey, Christopher
; APPLICANT: Cox III, George N.
; APPLICANT: Eisenberg, Stephen P.
; APPLICANT: Liu, Qiang
; APPLICANT: Rebar, Edward J.
; TITLE OF INVENTION: REGULATION OF ENDOGENOUS GENE EXPRESSION IN CELLS
; TITLE OF INVENTION: USING ZINC FINGER PROTEINS
; FILE REFERENCE: 8325-0002.22 / S2-US7
; CURRENT APPLICATION NUMBER: US/10/245,415B
; CURRENT FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:designed
; OTHER INFORMATION: 6-finger ZFP VEGF3a/1 from KpnI to BamHI
US-10-245-415B-30
```

```
Query Match          100.0%; Score 36; DB 12; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      178 RSDHLR 184
```

```
RESULT 399
US-10-412-105-18
; Sequence 18, Application US/10412105
; Publication No. US20030175790A1
; GENERAL INFORMATION:
; APPLICANT: Casey, Casey
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
; FILE REFERENCE: 8325-0010
; CURRENT APPLICATION NUMBER: US/10/412,105
; CURRENT FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: 09/779,233
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF 3a/1
US-10-412-105-18
```

```
Query Match          100.0%; Score 36; DB 12; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      178 RSDHLR 184
```

```
RESULT 400
US-10-412-109-18
; Sequence 18, Application US/10412109
; Publication No. US20030180713A1
; GENERAL INFORMATION:
; APPLICANT: Casey, Casey
; TITLE OF INVENTION: CELLS FOR DRUG DISCOVERY
; FILE REFERENCE: 8325-0010
; CURRENT APPLICATION NUMBER: US/10/412,109
; CURRENT FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: US/09/779,233
; PRIOR FILING DATE: 2001-02-08
```

```
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ZFP-VEGF 3a/1
US-10-412-109-18
```

```
Query Match          100.0%; Score 36; DB 12; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      178 RSDHLR 184
```

```
RESULT 401
US-10-084-826-29
; Sequence 29, Application US/10084826
; Publication No. US20030049649A1
; GENERAL INFORMATION:
; APPLICANT: WOLFE, Alan P.
; APPLICANT: COLLINGWOOD, Trevor
; TITLE OF INVENTION: TARGETED MODIFICATION OF CHROMATIN STRUCTURE
; FILE REFERENCE: 8325-0014 / S14-US1
; CURRENT APPLICATION NUMBER: US/10/084,826
; CURRENT FILING DATE: 2002-02-24
; PRIOR APPLICATION NUMBER: 09/844,508
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: 60/228,523
; PRIOR FILING DATE: 2000-08-28
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Veg3a/1 amino
; OTHER INFORMATION: acid sequence
US-10-084-826-29
```

```
Query Match          100.0%; Score 36; DB 15; Length 196;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RSDHLR 7
        |||||
Db      178 RSDHLR 184
```

```
RESULT 402
US-10-057-408-3
; Sequence 3, Application US/10057408
; Publication No. US20030082561A1
; GENERAL INFORMATION:
; APPLICANT: Sera, Takashi
; TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof
; FILE REFERENCE: 109845.135
; CURRENT APPLICATION NUMBER: US/10/057,408
; CURRENT FILING DATE: 2002-01-23
; PRIOR APPLICATION NUMBER: US 60/220,060
; PRIOR FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

OTHER INFORMATION: Zinc finger protein  
US-10-057-408-3

Query Match 100.0%; Score 36; DB 15; Length 196;  
Best Local Similarity 100.0%; Pred. No. 10;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
|||  
Db 178 RSDHLSR 184

Search completed: February 23, 2004, 11:47:31  
Job time : 29 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:37:34 ; Search time 11.6667 Seconds  
(without alignments)  
57.701 Million cell updates/sec

Title: US-09-989-994-229  
Perfect score: 36  
Sequence: 1 RSDHLSR 7

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : PIR 76: \*  
1: pirl: \*  
2: pir2: \*  
3: pir3: \*  
4: pir4: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36	100.0	1400	2 T22644	hypothetical prote

ALIGNMENTS

RESULT 1  
T22644  
hypothetical protein F54D1.5 - Caenorhabditis elegans  
C/Species: Caenorhabditis elegans  
C/Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 15-Oct-1999  
C/Accession: T22644  
R/Lennard, N.  
~~Submitted to the EMBL Data Library, July 1996~~  
A/Reference number: Z19592  
A/Accession: T22644  
A/Status: preliminary; translated from GB/EMBL/DBJ  
A/Molecule type: DNA  
A/Residues: 1-1400 <WIL>  
A/Cross-references: EMBL:Z77132; PIDDN:CAB00861.1; GSPDB:GN00022; CESP:F54D1.5  
A/Experimental source: clone F54D1  
C/Genetics:  
A/Gene: CESP:F54D1.5  
A/Map position: 4  
A/Introns: 21/2; 51/2; 205/2; 276/3; 364/2; 394/2; 466/3; 507/3; 536/3; 599/3; 672/2; 69

Query Match 100.0%; Score 36; DB 2; Length 1400;  
Best Local Similarity 100.0%; Pred. No. 9.8;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLSR 7  
Db 51 RSDHLSR 57

Search completed: February 23, 2004, 11:45:05  
Job time : 11.6667 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:35:04 ; Search time 7.66667 Seconds  
(without alignments)  
42.937 Million cell updates/sec

Title: US-09-989-994-229  
Perfect score: 36  
Sequence: 1 RSDHLR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : SwissProt\_41:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
-----					

No matches found

Search completed: February 23, 2004, 11:42:41  
Job time : 7.66667 secs



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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:36:14 ; Search time 27.6667 Seconds  
(without alignments)  
65.290 Million cell updates/sec

Title: US-09-989-994-229  
Perfect score: 36  
Sequence: 1 RSDHLR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : SPTREMBL\_23:\*

- 1: sp\_archaea:\*
- 2: sp\_bacteria:\*
- 3: sp\_fungi:\*
- 4: sp\_human:\*
- 5: sp\_invertebrate:\*
- 6: sp\_mammal:\*
- 7: sp\_mhc:\*
- 8: sp\_organelle:\*
- 9: sp\_phage:\*
- 10: sp\_plant:\*
- 11: sp\_rodent:\*
- 12: sp\_virus:\*
- 13: sp\_vertebrate:\*
- 14: sp\_unclassified:\*
- 15: sp\_virus:\*
- 16: sp\_bacteriaph:\*
- 17: sp\_archaeap:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36	100.0	1363	5 Q20766	Q20766 caenorhabdi

# ALIGNMENTS

RESULT 1

Q20766 PRELIMINARY; PRT; 1363 AA.

DT 01-JAN-1998 (TrEMBLrel. 05, Created)

DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)

DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)

DE F54D1.5 protein.

GN F54D1.5.

OS Caenorhabditis elegans.

OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;  
OC Rhabditidae; Peloderinae; Caenorhabditis.  
OX NCBI\_TaxID=6239;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA ~~leopard N.~~  
RL Submitted (JUL-1996) to the EMBL/GenBank/DBJ databases.  
RN [2]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=99069613; PubMed=9851916;  
RA none;  
RT "Genome sequence of the nematode C.elegans: A platform for  
RT investigating biology."  
RL Science 282:2012-2018 (1998).  
DR EMBL; Z77132; CAB00861.2; -.  
DR WormPep; F54D1.5; CE28563.  
DR InterPro; IPR002111; Cat\_channel\_TripL.  
DR InterPro; IPR005821; Ion\_trans.  
DR Pfam; PF00520; Ion\_trans; 1.  
KW Ionic channel; Transmembrane.  
SQ SEQUENCE 1363 AA; 156770 MW; DFE8960976A4E0B9 CRC64;

Query Match 100.0%; Score 36; DB 5; Length 1363;  
Best Local Similarity 100.0%; Pred. NO. 44;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 14 RSDHLR 20

Search completed: February 23, 2004, 11:44:17  
Job time : 27.6667 secs

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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:40:23 ; Search time 12.6667 Seconds  
(without alignments)  
23.382 Million cell updates/sec

Title: US-09-989-994-229  
Perfect score: 36  
Sequence: 1 RSDHLR 7

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 3

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%  
Maximum Match 100%  
Listing first 2000 summaries

Database : Issued\_Patents\_AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/iaa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36	100.0	7	4	US-09-731-558-14
2	36	100.0	99	4	US-09-229-037-15
3	36	100.0	196	4	US-09-229-037-30

ALIGNMENTS

RESULT 1  
US-09-731-558-14  
; Sequence 14, Application US/09731558  
; Patent No. 6503717  
; GENERAL INFORMATION:  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Liu, Qiang  
; APPLICANT: Rebar, Edward J.  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Methods of Using Randomized Libraries of Zinc Finger  
; FILE REFERENCE: 019496-003210US  
; CURRENT APPLICATION NUMBER: US/09/731,558  
; PRIOR FILING DATE: 2000-12-06  
; PRIOR APPLICATION NUMBER: US 09/456,100  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 14

LENGTH: 7  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:SB53  
US-09-731-558-14

Query Match 100.0%; Score 36; DB 4; Length 7;  
Best Local Similarity 100.0%; Pred. No. 2.5e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 1 RSDHLR 7

RESULT 2

US-09-229-037-15  
; Sequence 15, Application US/09229037A  
; Patent No. 6534261  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George No. 6534261bert  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric Edward  
; APPLICANT: Spratt, Sharon Kaye  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using  
; FILE REFERENCE: 019496-002200US  
; CURRENT APPLICATION NUMBER: US/09/229,037A  
; CURRENT FILING DATE: 1999-01-12  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 15  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:VEGF1 ZFP  
; OTHER INFORMATION: construct targeting upstream 9-base pair target  
US-09-229-037-15

Query Match 100.0%; Score 36; DB 4; Length 99;  
Best Local Similarity 100.0%; Pred. No. 1.5;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RSDHLR 7  
Db 81 RSDHLR 87

RESULT 3

US-09-229-037-30  
; Sequence 30, Application US/09229037A  
; Patent No. 6534261  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George No. 6534261bert  
; APPLICANT: Case, Casey Christopher  
; APPLICANT: Eisenberg, Stephen P.  
; APPLICANT: Jarvis, Eric Edward  
; APPLICANT: Spratt, Sharon Kaye  
; APPLICANT: Sangamo Biosciences, Inc.  
; TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells Using  
; FILE REFERENCE: 019496-002200US  
; CURRENT APPLICATION NUMBER: US/09/229,037A  
; CURRENT FILING DATE: 1999-01-12  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 30

; LENGTH: 196  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:designed  
; OTHER INFORMATION: 6-finger ZFP VEGF3a/1 from KpnI to BamHI  
US-09-229-037-30

Query Match 100.0%; Score 36; DB 4; Length 196;  
Best Local Similarity 100.0%; Pred. No. 3.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
CY 1 RSDHLSR 7  
Db 178 RSDHLSR 184

Search completed: February 23, 2004, 11:45:56  
Job time : 12.6667 secs

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OM protein - protein search, using sw model

Run on: February 23, 2004, 11:27:43 ; Search time 32.6667 Seconds  
(without alignments)  
102.039 Million cell updates/sec

Title: 09989994F3F2F1  
Perfect score: 107  
Sequence: 1 rsdhlstrsgnlsrdslr 21

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.1

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database :  
1: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:\*  
2: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:\*  
3: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:\*  
4: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:\*  
5: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1984.DAT:\*  
6: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1985.DAT:\*  
7: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1986.DAT:\*  
8: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1987.DAT:\*  
9: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:\*  
10: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1989.DAT:\*  
11: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:\*  
12: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:\*  
13: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1992.DAT:\*  
14: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1993.DAT:\*  
15: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1994.DAT:\*  
16: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:\*  
17: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1996.DAT:\*  
18: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1997.DAT:\*  
19: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1998.DAT:\*  
20: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:\*  
21: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:\*  
22: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:\*  
23: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:\*  
24: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	54	50.5	21	23	ABB05107	HIV-B zinc finger
2	54	50.5	1387	21	AA95441	Caenorhabditis ele
3	50	46.7	21	20	AA933370	Zinc finger clone
4	47.7	44.6	721	21	AA97414	Soybean 1-deoxy-D-
5	47.6	44.5	179	22	AA85416	Amino acid sequenc
6	47.6	44.5	386	22	AA93303	Human polypeptide,
7	47.6	44.5	725	22	AA95116	Human protein sequ
8	47.4	44.3	181	22	AA85419	Amino acid sequenc
9	47.4	44.3	181	22	AA85420	Amino acid sequenc

10	47.2	44.1	183	22	AA85417	Amino acid sequenc
11	46.8	43.7	171	21	AA623358	Arabidopsis thalia
12	46.8	43.7	196	21	AA623357	Arabidopsis thalia
13	46.8	43.7	199	21	AA623356	Arabidopsis thalia
14	46.8	43.7	229	21	AA622824	Arabidopsis thalia
15	46.8	43.7	229	21	AA651268	Arabidopsis thalia
16	46.8	43.7	229	21	AA651272	Arabidopsis thalia
17	46.8	43.7	254	21	AA622823	Arabidopsis thalia
18	46.8	43.7	254	21	AA651267	Arabidopsis thalia
19	46.8	43.7	254	21	AA651271	Arabidopsis thalia
20	46.8	43.7	257	21	AA622822	Arabidopsis thalia
21	46.8	43.7	257	21	AA651266	Arabidopsis thalia
22	46.8	43.7	257	21	AA651270	Arabidopsis thalia
23	46.6	43.6	189	22	AA85418	Amino acid sequenc
24	46	43.0	81	22	AAU54187	Propionibacterium
25	46	43.0	111	24	ABU01279	S. pneumoniae type
26	45.7	42.7	338	21	AA619108	Polypeptide isolat
27	45.1	42.1	574	22	ABG04914	Novel human diagn
28	44.9	42.0	67	22	ABB70603	Drosophila melanog
29	44	41.1	21	23	ABB05106	HIV-A' zinc finger
30	44	41.1	693	23	ABB92247	Herbicidally activ
31	44	41.1	695	23	ABB90651	Chlamydia pneumoni
32	44	41.1	703	20	AA935072	Streptomyces virid
33	43.8	40.9	19938	24	ABP76680	TAT dMT-FBI-1 fusi
34	43.7	40.8	658	24	ABG72564	FBI-1-Tat dMT fusi
35	43.7	40.8	659	24	ABG72560	Mouse beta4 integr
36	43.6	40.7	1466	23	AAE14709	Lactococcus lactis
37	43.5	40.7	231	23	ABB54115	Arabidopsis thalia
38	43.4	40.6	108	21	AA658104	Arabidopsis thalia
39	43.4	40.6	138	21	AA658103	Arabidopsis thalia
40	43	40.2	21	23	ABB05110	HIV-E zinc finger
41	43	40.2	52	22	AAU46550	Propionibacterium
42	43	40.2	211	23	ABG64841	Human albumin fusi
43	43	40.2	211	23	AAU96183	Human secreted pro
44	43	40.2	284	22	AA979725	Human protein SEQ
45	43	40.2	284	22	AA979725	Human protein SEQ
46	43	40.2	294	23	ABP41663	Human ovarian anti
47	43	40.2	311	22	AA978741	Human protein SEQ
48	43	40.2	325	19	AAW59645	Amino acid sequenc
49	43	40.2	325	22	AA992619	Human protein sequ
50	43	40.2	325	22	AA990692	Human AS164_1 prot
51	43	40.2	370	22	AA978740	Human protein SEQ
52	43	40.2	371	23	AAE15264	Human RNA metaboli
53	43	40.2	453	22	AA665852	Drosophila melanog
54	43	40.2	462	22	ABB64544	Drosophila melanog
55	43	40.2	1155	13	AA628047	IRS-1 protein. Ra
56	43	40.2	1235	24	AAO16354	Tylactone synthase
57	43	40.2	1841	18	AAW22605	Drosophila melanog
58	43	40.2	2429	22	ABB62451	Streptomyces venez
59	43	40.2	4630	18	AAW19629	S. venezuelae vep
60	43	40.2	4630	21	AA977177	Novel human enzyme
61	42.8	40.0	250	22	AAU23199	Human drug metabol
62	42.8	40.0	276	22	AA85777	Human polypeptide
63	42.8	40.0	276	22	AA838795	Human polypeptide
64	42.8	40.0	298	22	AA40581	Human polypeptide
65	42.7	39.9	33	23	ABP29489	Streptococcus poly
66	42.7	39.9	458	21	AA97425	Wheat 1-deoxy-D-xy
67	42.7	39.9	720	21	AA97422	Rice 1-deoxy-D-xy
68	42.6	39.8	89	17	AA889200	Zinc finger DNA bi
69	42.4	39.6	181	22	AA85415	Amino acid sequenc
70	42.3	39.5	357	22	AA93534	Human polypeptide
71	42.3	39.5	492	21	AA630128	Arabidopsis thalia
72	42.3	39.5	514	21	AA630127	Arabidopsis thalia
73	42	39.3	21	23	ABB05105	HIV-A zinc finger
74	42	39.3	110	22	AAU62127	Propionibacterium
75	42	39.3	175	21	AAU25482	Eucalyptus grandis
76	42	39.3	204	22	ABG05666	Novel human diagn
77	42	39.3	209	16	AA80945	Receptor-associate
78	42	39.3	215	14	AA41759	Bacillus subtilis
79	42	39.3	215	14	AA43315	Bacillus subtilis
80	42	39.3	229	22	AAU52398	Propionibacterium
81	42	39.3	426	22	ABB60543	Drosophila melanog
82	42	39.3	426	22	AAU42357	Propionibacterium

83	42	39.3	568	24	ABG74119	Human calcium chan
84	42	39.3	605	16	AAR72608	Human neuronal cal
85	42	39.3	605	21	AAB10594	Human calcium chan
86	42	39.3	605	23	AAE24806	Human calcium chan
87	42	39.3	612	16	AAR72609	Human neuronal cal
88	42	39.3	612	21	AAB10595	Human calcium chan
89	42	39.3	612	23	AAE24807	Human calcium chan
90	42	39.3	660	16	AAR72613	Human neuronal cal
91	42	39.3	660	21	AAB10583	Human calcium chan
92	42	39.3	660	23	AAE24796	Human calcium chan
93	42	39.3	691	23	ABB92127	Herbicidally activ
94	42	39.3	1857	22	ABB64454	Drosophila melanog
95	41.9	39.2	184	22	AAE06004	Zinc finger protel
96	41.8	39.1	372	20	AAW88301	E. coli O111 antiG
97	41.8	39.1	391	19	AAW30680	Glycerol-3-phospha
98	41.8	39.1	391	19	AAW60255	Klebsiella pneumon
99	41.8	39.1	391	19	AAW57324	Cytosolic glycerol
100	41.8	39.1	391	20	AAV26166	Cytosolic glycerol

ALIGNMENTS

```
RESULT 1
ABB05107
ID ABB05107 standard; Peptide; 21 AA.
XX
AC ABB05107;
XX
DT 27-MAR-2002 (first entry)
XX
DE HIV-B zinc finger amino acid sequence.
XX
KW Human immunodeficiency virus; HIV; Herpesvirus; HSV; zinc finger;
KW nucleic acid binding protein; viral; promoter; infection; virucide;
KW anti-HIV.
XX
OS Human immunodeficiency virus type 1.
OS Synthetic.
XX
PN WO200185780-A2.
XX
PD 15-NOV-2001.
XX
PF 08-MAY-2001; 2001WO-G302017.
XX
PR 08-MAY-2000; 2000GB-0011068.
PR 30-MAY-2000; 2000GB-0013106.
PR 02-OCT-2000; 2000WO-G303765.
PR 19-JAN-2001; 2001GB-0001446.
XX
PA (GENE-) GENDAQ LTD.
XX
PI Choo Y, Demaison C, Moore M, Papworth MA, Reynold L, Ullman CG;
PI Isalan M;
XX
DR WPI; 2002-139420/18.
XX
PT Novel viral nucleic acid binding polypeptide useful for binding viral
PT promoter sequences, and modulating expression of gene linked to viral
PT promoter sequence, and for treating human immunodeficiency virus
PT infection
XX
PS Example 3; Page 73; 141pp; English.
XX
CC The present invention describes a polypeptide (I) capable of binding to
CC a nucleic acid comprising a viral nucleotide sequence. Also described
CC are: (1) a composition (II) comprising (I) and a excipient, diluent or
CC carrier; (2) a nucleic acid molecule (III) encoding (I); (3) an
CC expression vector (IV) comprising (III); (4) a particle (V) harbouring
CC (I), (III) or (IV); and (5) modulating transcription by targeting nucleic
CC acid sequences that overlap with transcription factor binding sites by
CC the use of engineered zinc finger molecules. (I) has virucide and
```

CC	anti-HIV activities. (I) is useful for modulating transcription of a
CC	nucleic acid molecule, and for targeting a native viral nucleic acid
CC	sequence with a nucleic acid binding polypeptide. (I) is also useful for
CC	downregulating a viral function such as viral titre, viral infectivity,
CC	viral replication, viral packaging or viral transcription in a cell
CC	infected with the virus by contacting the virus and/or the cell with (I).
CC	(I) is also useful for modulating a viral function in a system. (I) is
CC	highly effective in repressing gene expression from nucleic acid
CC	molecules to which they bind. More preferably, they are highly effective
CC	in repressing gene expression from the HIV-1 promoter. ABB05064 to
CC	ABB05134 and ABA92738 to ABA92779 represent sequences used in the
CC	exemplification of the present invention.
XX	
SQ	Sequence 21 AA;
Qy	Query Match 50.5%; Score 54; DB 23; Length 21;
Db	Best Local Similarity 55.0%; Pred. NO. 0.1;
	Matches 11; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
	2 SDHLRTSGHLSRDRSNLTR 21
	2 SAHLTRSDHLSTDSANRTK 21

```
RESULT 2
AAV95441
ID AAV95441 standard; Protein; 1387 AA.
XX
AC AAV95441;
XX
DT 10-OCT-2000 (first entry)
XX
DE Caenorhabditis elegans polypeptide at the F54D1 locus.
XX
KW SOC/CRAC; calcium channel; store operated channel;
KW calcium release activated channel; therapy; diagnosis;
KW lymphocyte proliferative disorder.
XX
OS Caenorhabditis elegans.
XX
PN WO200040614-A2.
XX
PD 13-JUL-2000.
XX
PF 20-DEC-1999; 99WO-US29996.
XX
PR 30-DEC-1998; 98US-0114220.
PR 29-JAN-1999; 99US-0120018.
PR 22-JUN-1999; 99US-0140415.
XX
PA (BETH-) BETH ISRAEL DEACONESS MEDICAL CENT.
XX
PI Scharenberg AM;
XX
DR WPI; 2000-465957/40.
XX
PT New SOC/CRAC calcium channel polynucleotides and polypeptides used to
PT diagnose and treat proliferative disorders associated with the channel,
PT and to screen for novel modulators of the channel
XX
PS Example; Page 76-79; 109pp; English.
XX
CC The present sequence is that of a Caenorhabditis elegans
CC polypeptide at the F54D1. The polypeptide was identified as a
CC homologue of a C. elegans protein (see AAV95440) isolated in a
CC database search for putative calcium channel proteins. Such
CC polypeptides were used to screen EST databases for lymphocyte
CC homologues. Human clones (see AAA49922-24) encoding members (see
CC AAV95435-37) of a new family of SOC (store operated channel) or CRAC
CC (calcium release activated channel) calcium channel polypeptides
CC were identified.
XX
SQ Sequence 1387 AA;
```



Query Match 50.5%; Score 54; DB 21; Length 1387;  
Best Local Similarity 63.2%; Pred. No. 13;  
Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 RSDHLSRTSGHLSRDRSNTL 19  
Db 51 RSDHLSRKSTHKFLDNPNTL 69

RESULT 3  
ID AAY33370 standard; peptide; 21 AA.

AC AAY33370;  
DT 01-DEC-1999 (first entry)  
DE Zinc finger clone zfhra(Y) peptide.  
KM Zinc finger; DNA binding; Cys2-His2 class; 5-methylcytosine; mec;  
KW diagnostic; detection; chimera.

OS Unidentified.

PN WO947656-A2.

PD 23-SEP-1999.

PF 17-MAR-1999; 99WO-GB00816.

PR 17-MAR-1998; 98GB-0005576.

PR 31-MAR-1998; 98GB-0006895.

PR 03-APR-1998; 98GB-0007246.

XX (MEDT-) MEDICAL RES COUNCIL.

PI Choo Y, Isalan M;

DR WPI; 1999-562106/47.

XX New zinc finger polypeptides that bind DNA containing modified bases,

PT used as diagnostic and research reagents and for regulating gene

transcription

XX Example 4; Page 36; 56pp; English.

CC This invention describes a novel zinc finger (ZF) polypeptide (I) that  
CC binds to a target DNA sequence (II) containing a modified base but not to  
CC an otherwise identical sequence containing the equivalent unmodified  
CC base. The invention also describes methods for preparing a DNA-binding  
CC polypeptide of the Cys2-His2 ZF class, able to recognize sequences  
CC containing a 5-methylcytosine (mec) residue. (I) are used as diagnostic  
CC reagents (for detecting modified nucleic acids in complex mixtures,  
CC including differentiation of single-base modifications), in research and  
CC to produce chimeras, e.g. by fusion to a catalytic domain of a  
CC restriction enzyme (the product can then cleave only modified DNA), or to  
CC a DNA cleavage or activating domain (to give products that can regulate  
CC gene transcription, by sequence-specific cleavage or activation,  
CC dependent on presence of a modified base). (I) recognize modified bases  
CC in preference to unmodified ones, in a sequence-dependent manner, so have  
CC extremely high specificity. This sequence represents a zinc finger  
CC clone peptide fragment described in the method of the invention.

XX Sequence 21 AA;

Query Match 46.7%; Score 50; DB 20; Length 21;

Best Local Similarity 52.4%; Pred. No. 0.45;

Matches 11; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY 1 RSDHLSRTSGHLSRDRSNTL 21  
Db 1 RSDHLSRTSGHLSRDRSNTL 21

RESULT 4  
ID AAY97414 standard; Protein; 721 AA.

AC AAY97414;

DT 14-SEP-2000 (first entry)

DE Soybean 1-deoxy-D-xylose 5-phosphate synthase putative protein.

KM Soybean; 1-deoxy-D-xylose 5-phosphate synthase; DXPS;

KW isoprenoid biosynthesis; herbicide.

OS Glycine max.

PN WO200032792-A2.

PD 08-JUN-2000.

PF 02-DEC-1999; 99WO-US28587.

PR 03-DEC-1998; 98US-0110779.

XX (DUPO ) DU PONT DE NEMOURS & CO E I.

PI Cahoon RE, Tao Y, Williams ME, Coughlan SJ, Weng Z;

DR WPI; 2000-412338/35.

DR N-PSDB; AAA38753.

PT Polynucleotide encoding 1-deoxy-D-xylose 5-phosphate synthase enzyme

PT useful for producing transgenic plants and for producing antibodies

PT specific to which is useful for screening cDNA expression libraries

XX Claim 19; Page 45-47; 73pp; English.

CC The present sequence is a putative protein sequence for the soybean  
CC 1-deoxy-D-xylose 5-phosphate synthase enzyme (DXPS). The protein is  
CC involved in the isoprenoid biosynthesis pathway. Its cDNA was identified  
CC by sequencing a number of clones and then comparing their protein  
CC sequences to known proteins: this showed the sequence's similarity to the  
CC Capsicum annum DXPS sequence. The DXPS gene and protein can be used to  
CC create transgenic plants which express the gene at either different  
CC levels or at different stages of development compared to normal, and to  
CC identify herbicides.

XX Sequence 721 AA;

Query Match 44.6%; Score 47.7; DB 21; Length 721;

Best Local Similarity 20.3%; Pred. No. 61;

Matches 13; Conservative 3; Mismatches 5; Indels 43; Gaps 2;

QY 1 RSDHLSRTSGHLS-----RDRS 17  
Db 103 RSDVIFHVSRTSGHLSGLGVELTALHVVFNAPKDKILMDVGHQSYPHKILTRRDKM 162

QY 18 NLTR 21

Db 163 HTMR 166

RESULT 5  
AAB85416

ID AAB85416 standard; Protein; 179 AA.

AC AAB85416;

DT 17-SEP-2001 (first entry)

DE Amino acid sequence of 3x2F ZGS construct.

XX

KW Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic;  
 KW circulatory active; anti-inflammatory; dermatological; neuroprotective;  
 KW cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic;  
 KW osteopathic; gene therapy; zinc finger; binding site.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200153480-A1.  
 XX  
 PD 26-JUL-2001.  
 XX  
 PF 19-JAN-2001; 2001WO-GB00202.  
 XX  
 PR 24-JAN-2000; 2000GB-0001582.  
 XX  
 PR 30-MAY-2000; 2000GB-0013102.  
 PR 30-MAY-2000; 2000GB-0013103.  
 PR 30-MAY-2000; 2000GB-0013104.  
 XX  
 PA (GEND-) GENDAQ LTD.  
 XX  
 PI Choo Y, Klug A, Moore M;  
 XX  
 DR WPI; 2001-451906/48.  
 DR N-PSDB; AAH23364.  
 XX  
 PT Nucleic acid binding polypeptide, used to identify nucleic acids and  
 PT treat inflammatory, neurological, and dermatological disease, comprises  
 PT a repressor domain and several nucleic acid binding domains linked by  
 PT non-canonical linker(s) -  
 XX  
 PS Example 2; Fig 3; 142pp; English.  
 XX  
 CC The invention relates to a nucleic acid (NA) binding polypeptide (I)  
 CC comprising a repressor domain and several NA binding domains (BDs) linked  
 CC by at least one non-canonical linker. (I) may be used to identify NAs in  
 CC a complex mixture, to differentiate single base pair changes in NAs, in  
 CC the manufacture of chimeric restriction enzymes, to produce knock out  
 CC organisms, and in the treatment of diseases such as: cardiovascular,  
 CC inflammatory, metabolic, infectious, neurological, rheumatological,  
 CC genetic, dermatological, and musculoskeletal diseases. The invented  
 CC methods are used to produce novel NA binding polynucleotides and to  
 CC modify existing NA binding polynucleotides comprising several NA BDs.  
 CC The novel polypeptide comprises several nucleic acid binding domains  
 CC linked by linker sequences. The invented polypeptide is therefore able  
 CC to span longer or variable gaps, and a greater number of gaps, between  
 CC DNA binding subsites. The present sequence represents the amino acid  
 CC sequence of 3x2F ZGS fusion construct made by linking the third finger of  
 CC wild-type ZIF to the first finger of GAC clone using the peptide GERP.  
 XX  
 SQ Sequence 179 AA;  
 SQ  
 Query Match 44.5%; Score 47.6; DB 22; Length 179;  
 Best Local Similarity 16.8%; Pred. NO. 13;  
 Matches 16; Conservative 1; Mismatches 4; Indels 74; Gaps 3;  
 QY 1 RSDHL-----SRTSG-----HLNR 14  
 DB 47 RSDHLTHTHTGGEKPFACDTCGRKPARSDERKRTKHTGTERPYACPVESCDRHFSR 106  
 QY 15 -----DRSNLTR 21  
 DB 107 SDELTRHRIHTGGKPFQCRICMRNFSDRSNLTR 141  
 RESULT 6  
 AAM93303  
 ID AAM93303 standard; Protein; 386 AA.  
 XX  
 AC AAM93303;  
 XX  
 DT 06-NOV-2001 (first entry)  
 XX  
 DE Human polypeptide, SEQ ID NO: 2805.

XX  
 KW Human; full length cDNA; cDNA synthesis; oligo-capping.  
 XX  
 OS Homo sapiens.  
 XX  
 PN EP1130094-A2.  
 XX  
 PD 05-SEP-2001.  
 XX  
 PF 07-JUL-2000; 2000EP-0114089.  
 XX  
 PR 08-JUL-1999; 99JP-0194486.  
 PR 11-JAN-2000; 2000JP-0118774.  
 PR 02-MAY-2000; 2000JP-0183765.  
 XX  
 PA (HELI-) HELIX RES INST.  
 XX  
 PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;  
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
 XX  
 DR WPI; 2001-524255/58.  
 DR N-PSDB; AAK94223.  
 XX  
 PT 830 Primers useful for synthesizing full length cDNA clones and their  
 PT use in genetic manipulation -  
 XX  
 PS Claim 8; SEQ ID NO 2805; 1380pp + sequence listing; English.  
 XX  
 CC The invention relates to primers for synthesizing full length cDNA  
 CC clones. 830 cDNA molecules encoding a human protein have been  
 CC isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA  
 CC molecules have been determined. Primers for synthesizing the full length  
 CC cDNA are useful for clarifying the function of the protein encoded by  
 CC the cDNA. The full length clones were obtained by construction of full  
 CC length enriched cDNA libraries that were synthesised by the oligo-capping  
 CC method. The primers enable the production of the full length cDNA easily  
 CC without any special methods. The present sequence is a polypeptide  
 CC encoded by a full length human cDNA of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in CD-ROM format directly from EPO.  
 XX  
 SQ Sequence 386 AA;  
 SQ  
 Query Match 44.5%; Score 47.6; DB 22; Length 386;  
 Best Local Similarity 34.3%; Pred. NO. 31;  
 Matches 12; Conservative 3; Mismatches 6; Indels 14; Gaps 1;  
 QY 1 RSDHLR-----TSGHLSRDRSNLTR 21  
 DB 251 QSAHLARHORHTGGEKPFACDTCGRHFRNSSNLAR 285  
 RESULT 7  
 AAB95116  
 ID AAB95116 standard; Protein; 725 AA.  
 XX  
 AC AAB95116;  
 XX  
 DT 26-JUN-2001 (first entry)  
 XX  
 DE Human protein sequence SEQ ID NO:17104.  
 XX  
 KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 PN EP1074617-A2.  
 XX  
 PD 07-FEB-2001.  
 XX  
 PF 28-JUL-2000; 2000EP-0116126.  
 XX  
 PR 29-JUL-1999; 99JP-0248036.

27-AUG-1999; 99JP-0300253.  
PR 11-JAN-2000; 2000JP-0118776.  
PR 02-MAY-2000; 2000JP-0183767.  
PR 09-JUN-2000; 2000JP-0241899.  
XX  
XX (HELI-) HELIX RES INST.  
PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J,  
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T,  
XX  
DR WPI; 2001-318749/34.  
XX  
PT Primer sets for synthesizing polynucleotides, particularly the 5602  
PT full-length cDNAs defined in the specification, and for the detection  
PT and/or diagnosis of the abnormality of the proteins encoded by the  
PT full-length cDNAs -  
XX  
PS Claim 8; SEQ ID 17104; 25377bp + CD ROM; English.  
XX  
CC The present invention describes primer sets for synthesising 5602  
CC full-length cDNAs defined in the specification. Where a primer set  
CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary  
CC to the complementary strand of a polynucleotide which comprises one of  
CC the 5602 nucleotide sequences defined in the specification, where the  
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
CC of an oligonucleotide comprising a sequence complementary to the  
CC complementary strand of a polynucleotide which comprises a 5'-end  
CC sequence and an oligonucleotide comprising a sequence complementary to a  
CC polynucleotide which comprises a 3'-end sequence, where the  
CC oligonucleotide comprises at least 15 nucleotides and the combination of  
CC the 5'-end sequence/3'-end sequence is selected from those defined in  
CC the specification. The primer sets can be used in antisense therapy and  
CC in gene therapy. The primers are useful for synthesising polynucleotides,  
CC particularly full-length cDNAs. The primers are also useful for the  
CC detection and/or diagnosis of the abnormality of the proteins encoded by  
CC the full-length cDNAs. The primers allow obtaining of the full-length  
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and  
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to  
CC AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632  
CC represent oligonucleotides, all of which are used in the exemplification  
CC of the present invention.  
XX  
SQ Sequence 725 AA;  
XX  
Query Match 44.5%; Score 47.6; DB 22; Length 725;  
Best Local Similarity 34.3%; Pred. No. 63;  
Matches 12; Conservative 3; Mismatches 6; Indels 14; Gaps 1;  
QY 1 RSDHLR-----TSCHLSRDRSNLTR 21  
: |||: | | | : | | | |  
Db 590 QSAHLARHQRHTGKRPACDTCGRFRNSSLAR 624

RESULT 8  
AAB85419  
ID AAB85419 standard; Protein; 181 AA.  
XX  
AC AAB85419;  
XX  
DT 17-SEP-2001 (first entry)  
XX  
DE Amino acid sequence of 3x2F ZGSL construct.  
XX  
DE Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic;  
KW circulatory active; anti-inflammatory; dermatological; neuroprotective;  
KW cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic;  
KW osteopathic; gene therapy; zinc finger; binding site.  
XX  
OS Synthetic.  
XX  
PN WO200153480-A1.  
XX  
PD 26-JUL-2001.

XX  
PF 19-JAN-2001; 2001WO-GB00202.  
XX  
PR 24-JAN-2000; 2000GB-0001582.  
PR 30-MAY-2000; 2000GB-0013102.  
PR 30-MAY-2000; 2000GB-0013103.  
PR 30-MAY-2000; 2000GB-0013104.  
XX  
XX (GENDA-) GENDAQ LTD.  
PI Choo Y, Klug A, Moore M;  
XX  
DR WPI; 2001-451906/48.  
DR N-PSDB; AAH23367.  
XX  
XX  
PT Nucleic acid binding polypeptide, used to identify nucleic acids and  
PT treat inflammatory, neurological, and dermatological disease, comprises  
PT a repressor domain and several nucleic acid binding domains linked by  
PT non-canonical linker(s) -  
XX  
PS Example 6; Fig 6; 142pp; English.  
XX  
CC The invention relates to a nucleic acid (NA) binding polypeptide (I)  
CC comprising a repressor domain and several NA binding domains (BDs) linked  
CC by at least one non-canonical linker. (I) may be used to identify NAs in  
CC a complex mixture, to differentiate single base pair changes in NAs, in  
CC the manufacture of chimeric restriction enzymes, to produce knock out  
CC organisms, and in the treatment of diseases such as: cardiovascular,  
CC inflammatory, metabolic, infectious, neurological, rheumatological,  
CC genetic, dermatological, and musculoskeletal diseases. The invented  
CC methods are used to produce novel NA binding polynucleotides and to  
CC modify existing NA binding polynucleotides comprising several NA BDs.  
CC The novel polypeptide comprises several nucleic acid binding domains  
CC linked by linker sequences. The invented polypeptide is therefore able  
CC to span longer or variable gaps, and a greater number of gaps, between  
CC DNA binding subsites. The present sequence represents the amino acid  
CC sequence of 3x2F ZGSL fusion construct made by linking the third finger  
CC wild-type ZRF to the first finger of GAC clone using a peptide linker of  
CC the invention.  
XX  
SQ Sequence 181 AA;  
XX  
Query Match 44.3%; Score 47.4; DB 22; Length 181;  
Best Local Similarity 16.5%; Pred. No. 14;  
Matches 16; Conservative 1; Mismatches 4; Indels 76; Gaps 3;  
QY 1 RSDHL-----SRTSG-----HLSR 14  
: |||: | | | : | | | |  
Db 47 RSDHLTTHIRHTGKRPACDTCGRKPARSDERKRHTKIHGTGRPYACPVESCDRHFSR 106

QY 15 -----DRSNLTR 21  
: |||: | | | : | | | |  
Db 107 SDELTRHIRHTGSGGQKPFQCRICMRNFSDRSNLTR 143

RESULT 9  
AAB85420  
ID AAB85420 standard; Protein; 181 AA.  
XX  
AC AAB85420;  
XX  
DT 17-SEP-2001 (first entry)  
XX  
DE Amino acid sequence of 3x2F ZGLS construct.  
XX  
DE Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic;  
KW circulatory active; anti-inflammatory; dermatological; neuroprotective;  
KW cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic;  
KW osteopathic; gene therapy; zinc finger; binding site.  
XX  
OS Synthetic.  
XX  
PN WO200153480-A1.  
XX  
PD 26-JUL-2001.

XX 26-JUL-2001.  
PD 19-JAN-2001; 2001WO-GB00202.  
XX PF 24-JAN-2000; 2000GB-0001582.  
XX PR 30-MAY-2000; 2000GB-0013102.  
XX PR 30-MAY-2000; 2000GB-0013103.  
XX PR 30-MAY-2000; 2000GB-0013104.  
XX PA (GEND-) GENDAQ LTD.  
XX PI Choo Y, Klug A, Moore M;  
XX DR WPI; 2001-451906/48.  
XX DR N-PSDB; AAB23368.  
XX PT Nucleic acid binding polypeptide, used to identify nucleic acids and  
XX PT treat inflammatory, neurological, and dermatological disease, comprises  
XX PT a repressor domain and several nucleic acid binding domains linked by  
XX PT non-canonical linker(s) -  
XX PS Example 7; Fig 7; 142pp; English.  
XX CC The invention relates to a nucleic acid (NA) binding polypeptide (I)  
XX CC comprising a repressor domain and several NA binding domains (BDs) linked  
XX CC by at least one non-canonical linker. (I) may be used to identify NAs in  
XX CC a complex mixture, to differentiate single base pair changes in NAs, in  
XX CC the manufacture of chimeric restriction enzymes, to produce knock out  
XX CC organisms, and in the treatment of diseases such as: cardiovascular,  
XX CC inflammatory, metabolic, infectious, neurological, rheumatological,  
XX CC genetic, dermatological, and musculoskeletal diseases. The invented  
XX CC methods are used to produce novel NA binding polynucleotides and to  
XX CC modify existing NA binding polynucleotides comprising several NA BDs.  
XX CC The novel polypeptide comprises several nucleic acid binding domains  
XX CC linked by linker sequences. The invented polypeptide is therefore able  
XX CC to span longer or variable gaps, and a greater number of gaps, between  
XX CC DNA binding subsites. The present sequence represents the amino acid  
XX CC sequence of 3x2F ZGSL fusion construct made by linking the third finger  
XX CC wild-type ZIF to the first finger of GAC clone using a peptide linker of  
XX CC the invention.  
SQ Sequence 181 AA;  
Query Match 44.3%; Score 47.4; DB 22; Length 181;  
Best Local Similarity 16.5%; Pred. No. 14;  
Matches 16; Conservative 1; Mismatches 4; Indels 76; Gaps 3;  
OY 1 RSDHL-----SRTSG-----HL 12  
DB 47 RSDHLTTHIRHTGTGSGEKPFACDICGRKFAKSDERKHTKIHTGERPYACPVESCDRH 106  
OY 13 SR-----DRSNLTR 21  
DB 107 SRSDHLTTHIRHTGTGSGEKPFQCRICMRNFSDRSNL 143  
RESULT 10  
AAB85417  
ID AAB85417 standard; Protein; 183 AA.  
XX AC AAB85417;  
XX DT 17-SEP-2001 (first entry)  
XX DE Amino acid sequence of 3x2F ZGL construct.  
XX KW Nucleic acid binding polypeptide; repressor domain; cardiant; nootropic;  
XX KW circulatory active; anti-inflammatory; dermatological; neuroprotective;  
XX KW cerebroprotective; antibacterial; antifungal; antiviral; antirheumatic;  
XX KW osteopathic; gene therapy; zinc finger; binding site.  
XX OS Synthetic.

XX PN WO200153480-A1.  
XX PD 26-JUL-2001.  
XX PF 19-JAN-2001; 2001WO-GB00202.  
XX PR 24-JAN-2000; 2000GB-0001582.  
XX PR 30-MAY-2000; 2000GB-0013102.  
XX PR 30-MAY-2000; 2000GB-0013103.  
XX PR 30-MAY-2000; 2000GB-0013104.  
XX PA (GEND-) GENDAQ LTD.  
XX PI Choo Y, Klug A, Moore M;  
XX DR WPI; 2001-451906/48.  
XX DR N-PSDB; AAB85417.  
XX PT Nucleic acid binding polypeptide, used to identify nucleic acids and  
XX PT treat inflammatory, neurological, and dermatological disease, comprises  
XX PT a repressor domain and several nucleic acid binding domains linked by  
XX PT non-canonical linker(s) -  
XX PS Example 4; Fig 4; 142pp; English.  
XX CC The invention relates to a nucleic acid (NA) binding polypeptide (I)  
XX CC comprising a repressor domain and several NA binding domains (BDs) linked  
XX CC by at least one non-canonical linker. (I) may be used to identify NAs in  
XX CC a complex mixture, to differentiate single base pair changes in NAs, in  
XX CC the manufacture of chimeric restriction enzymes, to produce knock out  
XX CC organisms, and in the treatment of diseases such as: cardiovascular,  
XX CC inflammatory, metabolic, infectious, neurological, rheumatological,  
XX CC genetic, dermatological, and musculoskeletal diseases. The invented  
XX CC methods are used to produce novel NA binding polynucleotides and to  
XX CC modify existing NA binding polynucleotides comprising several NA BDs.  
XX CC The novel polypeptide comprises several nucleic acid binding domains  
XX CC linked by linker sequences. The invented polypeptide is therefore able  
XX CC to span longer or variable gaps, and a greater number of gaps, between  
XX CC DNA binding subsites. The present sequence represents the amino acid  
XX CC sequence of 3x2F ZGL fusion construct made by linking the third finger  
XX CC wild-type ZIF to the first finger of GAC clone using a peptide linker of  
XX CC the invention.  
SQ Sequence 183 AA;  
Query Match 44.1%; Score 47.2; DB 22; Length 183;  
Best Local Similarity 16.2%; Pred. No. 15;  
Matches 16; Conservative 1; Mismatches 4; Indels 78; Gaps 3;  
OY 1 RSDHL-----SRTSG-----HL 12  
DB 47 RSDHLTTHIRHTGTGSGEKPFACDICGRKFAKSDERKHTKIHTGERPYACPVESCDRH 106  
OY 13 SR-----DRSNLTR 21  
DB 107 SRSDHLTTHIRHTGTGSGEKPFQCRICMRNFSDRSNL 145  
RESULT 11  
AAG23358  
ID AAG23358 standard; Protein; 171 AA.  
XX AC AAG23358;  
XX DT 17-OCT-2000 (first entry)  
XX DE Arabidopsis thaliana protein fragment SEQ ID NO: 26636.  
XX KW Protein identification; signal transduction pathway; metabolic pathway;  
XX KW hybridisation assay; genetic mapping; gene expression control; promoter;  
XX KW termination sequence.

OS Arabidopsis thaliana.  
XX  
PN EP1033405-A2.  
XX  
PD 06-SEP-2000.  
XX  
PF 25-FEB-2000; 2000EP-0301439.  
XX  
PR 25-FEB-1999; 99US-0121825.  
PR 05-MAR-1999; 99US-0123180.  
PR 09-MAR-1999; 99US-0123548.  
PR 23-MAR-1999; 99US-0125788.  
PR 25-MAR-1999; 99US-0126264.  
PR 29-MAR-1999; 99US-0126785.  
PR 01-APR-1999; 99US-0127462.  
PR 06-APR-1999; 99US-0128234.  
PR 08-APR-1999; 99US-0128714.  
PR 16-APR-1999; 99US-0129845.  
PR 19-APR-1999; 99US-0130077.  
PR 21-APR-1999; 99US-0130449.  
PR 23-APR-1999; 99US-0130510.  
PR 23-APR-1999; 99US-0130891.  
PR 28-APR-1999; 99US-0131449.  
PR 30-APR-1999; 99US-0132048.  
PR 30-APR-1999; 99US-0132407.  
PR 04-MAY-1999; 99US-0132484.  
PR 05-MAY-1999; 99US-0132485.  
PR 06-MAY-1999; 99US-0132486.  
PR 06-MAY-1999; 99US-0132487.  
PR 07-MAY-1999; 99US-0132863.  
PR 11-MAY-1999; 99US-0134256.  
PR 14-MAY-1999; 99US-0134218.  
PR 14-MAY-1999; 99US-0134219.  
PR 14-MAY-1999; 99US-0134221.  
PR 14-MAY-1999; 99US-0134370.  
PR 18-MAY-1999; 99US-0134768.  
PR 19-MAY-1999; 99US-0134941.  
PR 20-MAY-1999; 99US-0135124.  
PR 21-MAY-1999; 99US-0135353.  
PR 24-MAY-1999; 99US-0135629.  
PR 25-MAY-1999; 99US-0136021.  
PR 27-MAY-1999; 99US-0136392.  
PR 28-MAY-1999; 99US-0136782.  
PR 01-JUN-1999; 99US-0137222.  
PR 03-JUN-1999; 99US-0137528.  
PR 04-JUN-1999; 99US-0137502.  
PR 07-JUN-1999; 99US-0137724.  
PR 08-JUN-1999; 99US-0138094.  
PR 10-JUN-1999; 99US-0138540.  
PR 10-JUN-1999; 99US-0138847.  
PR 14-JUN-1999; 99US-0139119.  
PR 16-JUN-1999; 99US-0139452.  
PR 16-JUN-1999; 99US-0139453.  
PR 17-JUN-1999; 99US-0139492.  
PR 18-JUN-1999; 99US-0139454.  
PR 18-JUN-1999; 99US-0139455.  
PR 18-JUN-1999; 99US-0139456.  
PR 18-JUN-1999; 99US-0139457.  
PR 18-JUN-1999; 99US-0139458.  
PR 18-JUN-1999; 99US-0139459.  
PR 18-JUN-1999; 99US-0139460.  
PR 18-JUN-1999; 99US-0139461.  
PR 18-JUN-1999; 99US-0139462.  
PR 18-JUN-1999; 99US-0139463.  
PR 18-JUN-1999; 99US-0139750.  
PR 18-JUN-1999; 99US-0139763.  
PR 21-JUN-1999; 99US-0139817.  
PR 22-JUN-1999; 99US-0139899.  
PR 23-JUN-1999; 99US-0140353.  
PR 23-JUN-1999; 99US-0140354.  
PR 24-JUN-1999; 99US-0140695.  
PR 28-JUN-1999; 99US-0140823.  
PR 29-JUN-1999; 99US-0140991.

PR 30-JUN-1999; 99US-0141287.  
PR 01-JUL-1999; 99US-0141842.  
PR 01-JUL-1999; 99US-0142154.  
PR 02-JUL-1999; 99US-0142055.  
PR 06-JUL-1999; 99US-0142390.  
PR 08-JUL-1999; 99US-0142803.  
PR 09-JUL-1999; 99US-0142920.  
PR 12-JUL-1999; 99US-0142977.  
PR 13-JUL-1999; 99US-0143542.  
PR 14-JUL-1999; 99US-0143624.  
PR 15-JUL-1999; 99US-0144005.  
PR 16-JUL-1999; 99US-0144085.  
PR 16-JUL-1999; 99US-0144086.  
PR 19-JUL-1999; 99US-0144325.  
PR 19-JUL-1999; 99US-0144331.  
PR 19-JUL-1999; 99US-0144332.  
PR 19-JUL-1999; 99US-0144333.  
PR 19-JUL-1999; 99US-0144334.  
PR 19-JUL-1999; 99US-0144335.  
PR 20-JUL-1999; 99US-0144352.  
PR 20-JUL-1999; 99US-0144632.  
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 DT 17-OCT-2000 (first entry)

XX Arabidopsis thaliana protein fragment SEQ ID NO: 25900.

XX Protein identification; signal transduction pathway; metabolic pathway;  
 KW hybridisation assay; genetic mapping; gene expression control; promoter;  
 KW termination sequence.

XX Arabidopsis thaliana.

OS Arabidopsis thaliana.

PN EP1033405-A2.

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Query Match 43.7%; Score 46.8; DB 21; Length 229;  
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DT 18-OCT-2000 (first entry)  
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